



**November 1991**



## **Amateur Radio In The Nation's Capital**

**FCC Highlights    •    ARRL Report    •    VE Exam Schedule    •    Public Service Report  
DX Column    •    Feature Articles    •    Club Reports    •    Want Ads    •    Much More**

Be a Know It All; Read Auto-Call

---

**Auto-Call is the Official Journal of the Foundation For Amateur Radio**



**\$1.00**



# MARYLAND RADIO CENTER

Authorized dealer for :

Kenwood, Icom, TenTec, AEA, Kantronics,  
Spi-ro, Barker/Williamson, Alpha Delta,  
MFJ, ARRL Books, Callbook, Sams books,  
Mirage/KLM, Benchner, Cushcraft, Hustler,  
Lakeview, SMC mounts, the Pouch, Diamond,  
Amidon, Butternut, Cable Factory, Larsen,  
Nye, Vanco, VanGorden, Vibroplex, DRSI,  
Covercraft, Antenna Specialists, Daiwa,  
Astron

## Nationwide Order Line

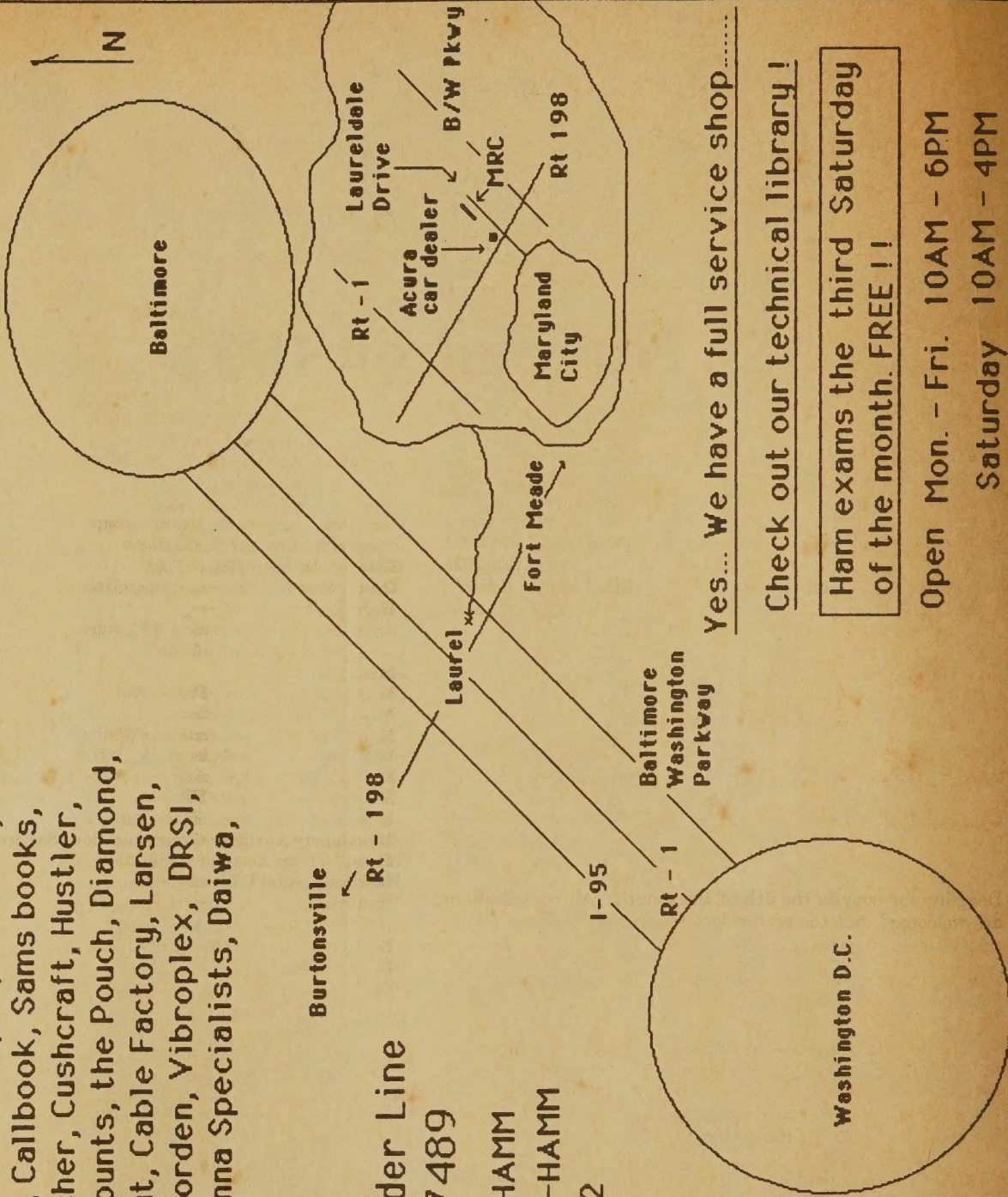
1-800-447-7489

Baltimore - 880-HAMM

Washington - 470-HAMM

Laurel - 725-1212

FAX - 725-1198



Yes... We have a full service shop.....

Check out our technical library !

Ham exams the third Saturday  
of the month. FREE !!

Open Mon. - Fri. 10AM - 6PM

Saturday 10AM - 4PM



# AUTO-CALL

## Official Journal of the Foundation for Amateur Radio

### FOUNDATION OFFICERS

Foundation President	Phil Russo, N3GDD (301) 552-2918
Executive Vice President	Tony Young, WA3YLO (301) 262-1917
Admin. Vice President	Henry Miller, W3BWN (301) 474-7376
Vice President	Robert Armstrong, WA4SQL (703) 751-2294
Vice President	Hugh Turnbull, W3ABC (301) 927-1797
Vice President	John Chitwood, K3RGB (301) 799-7360
Vice President	Mary Morris, N4TCI (703) 971-3905
Treasurer	Ed Morrison, W3RY (202) 966-4802
Recording Secretary	Joe Seasely, KA3UZI (301) 725-5822
Corresponding Secretary	Ethel Smith, K4LMB (703) 536-8469

### AUTO-CALL MAGAZINE STAFF

Editor	Ethel Smith, K4LMB (703) 536-8469
Circulation Manager	John Swafford, W4HU (703) 536-9537

Deadline for copy is the 5th of the month. All contributions are welcomed, but the editor does reserve the right to edit or reject any portion of any copy.

Permission is granted for copying any material from AUTO-CALL provided credit is given.

AUTO-CALL is published monthly as the official journal of the Foundation for Amateur Radio. Comments made by columnists do not necessarily reflect the opinions of the Foundation. No effort is made to investigate advertisers, therefore no warranty can be implied.

AUTO-CALL has paid subscriptions of over 1600 and a total circulation of about 2000. Copies are sold at local stores and a number of Complimentary and Swap copies are mailed each month. The magazine is entered as third class non-profit matter at the post office at Arlington, VA.

Subscription rate is \$8 a year.

Subscriptions received after the 15th of the month will be started with the following month's issue.

AUTO-CALL MAGAZINE  
P.O. BOX 7612  
FALLS CHURCH, VA 22040-1452

### MEMBER CLUBS

Adams County Amateur Radio Society  
Alexandria Radio Club  
Amateur Radio Research and Development Corp.  
AMSAT - Radio Amateur Satellite Corporation  
Anne Arundel Radio Club  
Antietam Radio Association, Inc.  
Arlington Amateur Radio Club  
Baltimore Amateur Radio Club  
Baltimore Radio Amateur Television Society  
Capital City Amateur Radio Society  
Capitol Hill Amateur Radio Society  
Chaverim of the Greater Washington Area, Inc.  
Columbia Amateur Radio Association  
Department of State Amateur Radio Club  
Fauquier Amateur Radio Club  
Frederick Amateur Radio Club  
Frederick Amateur Repeater Group  
Friendship Amateur Radio Club  
Goddard Amateur Radio Club  
Green Mountain Repeater Association  
Herndon Repeater Group  
Johns Hopkins University APL Amateur Radio Club  
Laurel Amateur Radio Club  
MADRAS  
Maryland Emergency Phone Net  
Maryland FM Association  
Maryland Mobileers Amateur Radio Club  
Mercury Amateur Radio Assn., NE Area  
Metropolitan Communications Network Radio Club  
Metrovision Amateur TV Club  
Montgomery Amateur Radio Club  
Montgomery Auxiliary Communications Service  
Mount Vernon Amateur Radio Club  
National Capital DX Association  
Naval Research Laboratory Radio Club  
New Carrollton Amateur Radio Society  
Northern Virginia FM Association  
Northern Virginia Radio Club  
Ole Virginia Hams Amateur Radio Club  
Pentagon Amateur Radio Club  
Potomac Area VHF Society  
Potomac Valley Radio Club  
Prince George's Wireless Association, Inc.  
Prince George's County ARES/RACES  
Quarter Century Wireless Association, Inc.  
    Baltimore Chapter #20  
    Shenandoah Valley Chapter #137  
    Vic Clark Chapter #91  
    Washington Chapter #23  
Rock Creek Amateur Radio Association  
St. Mary's County Amateur Radio Association  
Shenandoah Valley Amateur Radio Club  
Southern Maryland Amateur Radio Club  
Southern Patuxent Amateur Radio Club  
Stafford Amateur Radio Assn  
Sterling Park Amateur Radio Club  
Tri-County Amateur Radio Club  
T-MARC, The Middle Atlantic FM & Repeater Council  
Vienna Wireless Society  
Washington Adventist Amateur Radio Association  
Washington Area Young Ladies' Amateur Radio Club  
Woodbridge Wireless, Inc.



## EDITORIAL

### Checking Your Facts

I have just had a good example of the importance of checking your facts before you criticize someone. I just drafted a blistering editorial about the speech that was **reportedly** made by FCC Private Radio Bureau Chief, Ralph Haller, at the ARRL National convention in Saginaw, Michigan. I had to use asbestos paper to print what I thought about the bright idea of using our Amateur "excess frequencies" for "non-Amateur" communications on our Amateur bands.

I circulated the draft of my editorial far and wide and asked for comment. Most recipients said, "Right On, don't change a word." But a couple of people came back and said, "I attended that forum and I don't remember hearing Mr. Haller saying anything like that." So I checked some more.

It turns out that there was a **draft** written for Mr. Haller's speech and it did include these bright ideas. Apparently some copies of that **draft** got out of the office. But the speech Mr. Haller actually gave was markedly different. He **would** like to see some relaxation of the rules regarding Amateur logistical support of charitable and public service type activities, but he **did not** refer to our "excess capacity" in the ham bands.

I'd like to apologize to Mr. Haller for originally accepting the report I had seen. I'm just awfully glad I checked my facts before we printed the comments in Auto-Call. Now let's call off the dogs and give the man credit for having a sincere interest in the future of Amateur Radio. After all, we do know him as N4RH.

Mr. Haller suggested that the Amateur community prepare a Petition for Rulemaking with regard to relaxing the rules. Now let's see what we can come up with. Perhaps we can get a relaxed definition of "non-business," that will still preserve the character of the Amateur Service and at the same time allow us more leeway in participating in charitable and public service type activities.

Ethel Smith - K4LMB  
Auto-Call Editor

## INDEX

### COLUMNS

ARRL REPORT	7
DX COLUMN	13
ELMERS' CORNER	32
FCC HIGHLIGHTS	11
LOCAL NETS	14
PUBLIC SERVICE REPORT	22
SRAM - Amateur Radio in the USSR	35
SKYWARN REPORT	19
TRAINING	17
VOLUNTEER EXAMINER CO-OP.	15
WANT ADS	56

### SPECIAL FEATURES

President's Message	38
Recognitions	21
Scholarship Winners	23
Silent Keys	21

### CLUB REPORTS

Antietam Radio Association	50
Baltimore Amateur Radio Club	50
Baltimore Radio Amateur TV Society	53
Goddard Amateur Radio Club	43
Herndon Repeater Group	40
Laurel Amateur Radio Club	46
Maryland Emergency Phone Net	45
Metropolitan Communications	38
Metrovision - Amateur TV	49
Montgomery Amateur Radio Club	41
Mount Vernon Amateur Radio Club	48
Pentagon Amateur Radio Club	47
Prince Georges Wireless	51
Southern Maryland Amateur Radio Club	52
Stafford Amateur Radio Association	39
Tri-County Amateur Radio Club	44
Vienna Wireless Society	42

### ADVERTISERS

EEB Electronic Equipment Bank	10
G & G	55
Ham Radio Outlet	6
Maryland Radio	2
R.F. Connection	31
SkyPoint Ham Center	61
Virginia Micro System	40
Williams Radio	12



## Coming Events

- Nov 2-4 CW Sweepstakes
- Nov 3 Marine Corps Marathon - Amateur Radio Communications
- Nov 3 Mason-Dixon Computer & Hamfest, Westminster, MD (See Page 18)
- Nov 3 Marine Corps Marathon
- Nov 16-18 Phone Sweepstakes
- Nov 20 Next Space Shuttle launch
  
- Dec 8 Goddard & Tri-County HolidayFest, Largo, MD (See Page 33)
- Dec 6-8 160 Meter Contest
- Dec 14-15 10-Meter Contest

### 1992

- Jan 19 Richmond Frostfest, Richmond, Virginia
- Jan 26 WinterFare, Columbia, Pennsylvania
  
- Feb 23 Vienna WINTERFEST™, Vienna Virginia (See Page 34)
- Feb 29 Cumberland County Winter Hamfest, Camp Hill, PA
  
- Mar ? Next SAREX mission, STS-45 - 57% Inclination
- Mar 28-29 Timonium Hamfest, Timonium (Baltimore), Maryland
  
- Apr 12 Penn-Del ARC Hamfest, New Castle, Delaware
- Apr 24-26 Dayton Hamvention, Dayton, Ohio
- Apr 26 Carroll County Computerfest & Hamboree, Westminster, Maryland
  
- May 10 FAR/QCWA Annual Spring Banquet, Greenbelt, Maryland
- May 10 Roanoke Valley Hamfest, Vinton (Roanoke), Virginia
- May 15-17 Rochester Hamfest, Rochester, New York
- May 24 Maryland FM Assn. Hamfest, Howard County Fairgrounds
  
- Jun 7 Ole Virginia Hams Hamfest, Manassas, Virginia
- Jun 21 Frederick Hamfest, Frederick, Maryland
  
- July 26 BRATS Hamfest and Computer Fest, Timonium, Maryland
  
- Aug 2 Shennandoah Valley Hamfest, Berryville, Virginia
- Aug 23 Southern Patuxent Hamfest, Upper Marlboro, Maryland
  
- Sep 5-6 Shelby Hamfest, Shelby, North Carolina
- Sep 13 F.A.R. FEST, Gaithersburg, Maryland
- Sep 19-20 Virginia Beach Hamfest, Virginia Beach, Virginia
- Sep 19-20 York Hamfest, York, Pennsylvania

*Thanks to Bob Milligan, KI4MB for providing much of the above information.*

*Please keep Auto-Call advised of coming Hamfests and other important Coming Events. We are anxious to provide our readers with timely information and help to avoid possible conflicts when scheduling activities.*

***We can use all the help we can get!***

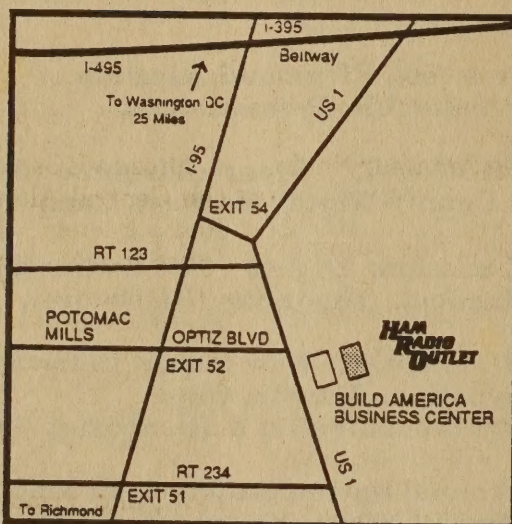




# HAM RADIO OUTLET

ORDER TOLL FREE  
(800) 444-4799

ORDER TOLL FREE  
(800) 444-4799

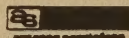


**CURTIS BROWN**  
**WB4KZL**  
**NEW STORE MANAGER**

**11 Store Buying Power**  
**All Major Brands In-Stock**  
**at Discount Prices**



**ALPHA DELTA AMERITRON**

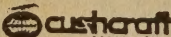


**ASTRON CORPORATION**

**Beacont**



**BENCHER, INC.**



**hy-gain**

**GEOCHRON**



**ICOM**

**Kantronics**

**KENWOOD**



**MFJ**

**MIRAGE**



**rconcept**

**SONY**

**VIBROPLEX**



**YAESU**

14803 Build America Drive  
Woodbridge, VA 22191

Hours: 10AM - 5:30PM  
Monday - Saturday

Metro (703) 643-1063  
Local (703) 494-8750



# American Radio Relay League Report

By John Swafford -- W4HU

*This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.*

---

## The New World Order.

Albania is on the air again! Right on schedule, ZA1A appeared Tuesday, Sept. 17, just a day after opening ceremonies for the IARU Albania Project. Martti Laine, OH2BH, was at the controls on 20-meter SSB.

It's significant that two of the most-sought DXCC countries, Burma and Albania, have been reactivated within weeks of each other (although under entirely different and unrelated circumstances -- a 30-year ban on Amateur Radio in Burma has not been lifted).

In Albania, political upheaval this summer has been overshadowed by the disintegration of the Soviet Union. ZA1A is a manifestation of changes there that often have been over-looked in the world press.

It is gratifying that Albanian officials chose the International Amateur Radio Union to assist them in jump-starting Amateur Radio there. Their opening ceremony came just one day before the United Nations convened its 46th session and welcomed seven new U.N. members (including both North and South Korea, who were recognized as separate countries for the DXCC award earlier this year).

An application for IARU membership from Albania is expected soon.

Perhaps Amateur Radio will help speed both these countries, Burma and Albania, toward full participation in the world community. We'd like to think so.

**Volunteer Examiner Coordinators Reject Incorporation of Group.** Volunteer examiner coordinators have voted not to incorporate as a group, one of several proposals made at this year's meeting of the National Conference of VECs (NCVEC) on June 5.

In addition to incorporation, NCVEC members also voted not to seek federal tax exemption status, not to solicit outside funding, and not to accept unsolicited funds.

The NCVEC approved a proposal that VECs continue to maintain a "Technician-plus" database, a list of Technician class licensees who have passed a Morse code examination. However, no funding mechanism has been approved. The ARRL was joined by other VECs in opposing incorporation. The League had pointed out that it would create new potential liabilities for individuals having responsibilities in the new corporation.

Those VECs voting for incorporation included the Central Alabama VEC; the DeVry Amateur Radio Society; the Koolau (HI) Amateur Radio Club; the Sandarc-VEC (LaMesa, CA); the W5YI-VEC; and the Western Carolina Amateur Radio Society VEC.

Voting against incorporation were ARRL/VEC; Charlotte VEC; Golden Empire Amateur Radio Society; Laurel (MD) ARC; Mountain ARC (MD); PHD Amateur Radio Assn.; Sunnyvale VEC ARC; and Triad Emergency ARC (NC).

**Retailer Instructs Staff in Sales of Amateur Gear.** You don't need a license to buy a ham radio transceiver, but... Now that Radio Shack stores are carrying a two-meter handheld in addition to the 10-meter HTX-100 transceiver, concerns have resurfaced that this might lead to an increase in unlicensed, illegal operation.

This topic is scheduled to be addressed in Radio Shack's October "Merchandising Newsletter," which goes to every Radio Shack store. It was written by Dave Wolf, WO5H, one of the approximately 2,000 licensed Amateurs in the Tandy/Radio Shack organization. In brief, the article makes the following points:

- o Radio Shack has a firm policy on the sale of any product for an illegal purpose: "If someone comes in and asks for a couple of walkie-talkies to keep in contact around their warehouse, do not sell them two HTX-202s."

- o New products other than CB, directly targeted to business users, are in the works.

(Continued)



## ARRL Report - Continued

o You need a Technician or higher class license to transmit on the two-meter band; **Now You're Talking** is just the book to get someone on their way (and is available in Radio Shack stores).

o Showing a ham license is **NOT** required to buy an HTX-202. There are lots of legitimate reasons why a non-ham might want to buy one. Store personnel are told, "Qualify the customer. Make sure they are aware that the unit is for use **ONLY** for non-commercial purposes on the two-meter Amateur band; that a ham license (Technician class or higher) must be possessed before any transmission is made; that 'boot-leggers' are most unwelcome on the ham bands and hams actively police their frequencies.

"We **DO** care if a transceiver is knowingly sold to someone who intends to misuse it and you should too. Those of us most directly involved with the development of the HTX-1 and HTX-202 are licensed, active hams who do not condone illegal operation."

o "Radio Shack has done far more than any other manufacturer or retailer, by placing warnings that one must have a ham license before transmitting on the giftbox, in the owner's manual, in all advertising, and on the product itself."

o "Several times a year, Data Processing mails to your store the names of your local ham clubs and how to get in touch with them. This information is based upon a computer tape we receive from the ARRL (American Radio Relay League) and is organized by zip code. You are encouraged to publicize the date, time and place of your local ham club's meeting. You are also encouraged to publicize ham license classes in your community."

### DX Century Club Notes.

A greatly expanded version of the ARRL's DXCC Countries List (and record book) will be available shortly. DXCC countries now are listed in order beginning with numbered prefixes, matching most electronic databases and software.

The 250 DXCC countries which will be eligible for QSL card field checking are indicated in the list.

Additional information in the new booklet includes how to use both incoming and outgoing QSL bureaus (with a list of addresses for W/VE bureaus), and information on the workings of the League's DX Advisory Committee as well as a list of committee members.

The price of the new List will be \$2, postpaid.

On a related topic, an editorial re-write of DXCC Rule Point 3 has been adopted. Point 3, now rewritten for clarity, deals with eligibility for DXCC status of land masses or islands separated by another DXCC country.

**Shuttle Astronauts Add Two to Ranks of Amateur Radio.** Two more NASA Shuttle astronauts have passed their Amateur exams. Brian Duffy and David Leestma, both scheduled to fly STS-45 in March, 1992, have passed the Technician/Morse exams and await call signs. As in the past, organizers of the Shuttle Amateur Radio EXperiment (SAREX) will ask for FCC waivers to allow the pair to operate from space (FCC rules allow "space operation" only by Extra class Amateurs).

Flight STS-45 will fly a high inclination orbit, as did the pioneer Amateur Radio shuttles of Owen Garriott and Tony England, and so will be more accessible to Amateurs outside the tropics. As a result of the increased coverage allowed by these orbits, some general operating is hoped for. Some contacts with schools also are planned, and details will be available as the launch date approaches.

Farther in the future several more ham-astronauts are tentatively scheduled to fly again. They are: Jay Apt, N5QWL (Sept. '92); Jerry Ross, N5SCW (March '93); Linda Godwin, N5RAX (Oct. '93); and Ron Parise, WA4SIR (Sept. '94).

### Sweepstakes Awards Readied.

Special awards will again be offered in the 1991 ARRL November Sweepstakes contest. The popularity of "participation pins" last year has led to their being offered once again, for 100 contacts either or both weekends (CW and 'phone).

This year coffee mugs will be available to those working all 77 ARRL/CRRL field organization sections -- The Clean Sweep. "Sweep awards" were last offered in 1983, to commemorate the 50th anniversary of the November Sweepstakes.

The special band segments will again be set aside this year for slow-speed CW.

Full SS rules appear in October QST.

(Continued)



## ARRL Report - Continued

### Convention Hosts Awards.

Several awards were given at the ARRL National Convention in Saginaw, Mich. on Aug. 23-25:

The 1991 Amateur Ambassador Award, sponsored by Advanced Electronic Applications, was presented to Ed Addy, KEØEG, of Fagan, Minn., for phone patch service from Saudi Arabia last winter. The award was presented by AEA's Al Chandler, K6RFFK.

Shauna Richards, N7NGT, of Rock Springs, Wyo., received the 1989 Hiram Percy Maxim Award. Richards, 16, was chosen for her interest in public service work and for setting an example for other young people in her community.

Stephen Potts, KB2GVB, received the Walker Tompkins Writing Contest award.

The convention was honored by a "special tribute" signed by Michigan state senators James Barcia and Jon Cisky, and by Gov. John Engler.

A brief ceremony was held to recognize those Amateurs who died in the performance of public service and who have been nominated for recognition on a memorial stone to be erected on the League's headquarters grounds in Newington, Conn.

**Soviet Hams Instrumental in Resistance to Coup Attempt.** Romeo Stepanenko, of 3W3RR and YAØRR, made many new friends during his June-July visit to the U.S. Little did any of those new American friends dream that just a few weeks hence Stepanenko would be at the heart of radio operations from the Russian White House, center of resistance to the attempted coup de etat in the Soviet Union.

During the unrest, word filtered out of the USSR via Amateur Radio operators such as Ed Kritsky, NT2X, Gene Walsh, N2AA, and others who were in Russia at the time. Stepanenko was in Moscow, to pick up Yaesu equipment brought from Japan by Kritsky for use in the operation from Burma that is now on the air as XYØRR.

On August 20 many Amateurs received a "chain fax" from Stepanenko. The expedition would be delayed, he said, but the group (also including 4K2OT, UA9MA, RA3AUU, and RA4HA) expected to be on by the end of August.

"At the time all participants are in Moscow," Stepanenko said in his fax message, "safe and are

very busy with organization of emergency broadcasting R3A from Boris Eltsin HQ with the team of Russian Amateur Radio Emergency Service.

"Listen to R3A on 14.175 and 7.044 the only real and trusty information."

As the word spread many Amateurs did listen, mostly to 14.175. A few days later the U.S. television networks carried video of operations from R3A and Stepanenko was easily recognizable in the film footage.

One ham who received the fax was Bill Goodman, K3ANS, of Easton, Pa., who had hosted Stepanenko in early July. Goodman got in touch with the Morning Call in Allentown, Pa. As always, the Call's editors were looking for a local angle to an international story.

Next to a page one story under the banner "Gorbachev resigns as party chief" the Call ran a sidebar on Goodman and his friendship with Stepanenko. Call reporter Ron Devlin telephoned Moscow on Aug. 24 and interviewed Stepanenko, who told him that at times R3A was the only source of communications for the resistance.

According to the Call, Stepanenko was assisted in setting up R3A by Yuri Brajenko, who is president of a company called Moscow Boston International Ltd. (and for whom Stepanenko works; Brajenko accompanied Stepanenko on some of his U.S. tour). Brajenko also was in Moscow at the time of the attempted coup.

And on Aug. 22 Dick Ehrhorn, W4ETO, president of Ehrhorn Technical Operations (and who had visited Russia earlier this summer) received the following fax from Gene, RA3AA, with whom Ehrhorn and his family stayed in June:

"Dear Dick:

"I send you this fax from Russian prime minister office. We Win! Mr Gorbachev back in Moscow. Our special emergency stn R3A still operates from Russian White House.

"Equipment: IC-726 and Alpha 76."

"73,  
Gene, RA3AA.

xxx



## THE NEW GENERATION ROTATORS

### THEY'RE NOT YOUR FATHER'S HAM "M"

Rotator Comparison Chart

Model/Specs	The New Generation									Old Generation	
	Create RCS	Create RCSA	Create RCSB	Emoto 105TSX	Emoto 747SRX	Emoto 1105MSX	Emoto 1200FOX	Emoto 1300MSAX	Emoto 1800FSX	Telex HamIV	Telex TZX
Rotate Torque Ft#	43	116	160	37	50	57	143	215	287	67	83
GD <sup>2</sup> Kgm	N/A	N/A	N/A	100	400	700	1000	1800	3000	N/A	N/A
Ant. Inertia											
Brk/Static Torque Ft#	506	1085	1450	215	502	717	1290	1792	2150	417	750
Wind Load In Tower (8)											
Mast mount	10	25	25	11	22	27	27	33	36	15	20
Rotating speed 360°	60-150 sec variable	60-150 sec variable	60-150 sec variable	55	35	65	40	77	80	60	60
Rev. Delay	None	2 sec	3 sec							None	None
Preset	Opt 3	Opt 3	yes	no	no	Opt	yes	yes	yes	no	no
Computer	no	no	no	no	yes	yes	yes	yes	yes	no	no
Power 120V 60Hz	80VA	140VA	200VA	70VA	70VA	70VA	90VA	120VA	150VA	26V AC	26V AC
Mast Dia.	2-2.5 in	2-2.5 in	2-2.5 in	2-2.4 in	1.6-2.4 in	1.6-2.4 in	1.6-2.4 in	2.4-3.1 in	3.5-5.5 in	2 in	2 in
Control wire	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	8 cond	8 cond
Vertical max. load #	880	1540	1540	660	1100	880	1760	1760	2200	400	800
Rotor wt#	13	17	20	7.5	9	11	11	13	39.5	24	28
Brake type	worm drive	worm drive	worm drive	disk	friction	friction	friction	friction	friction	wedge	wedge
Self center	yes	yes	yes	Adj	Adj	Adj	Adj	Adj	Adj	no	no
Special mast clamp											
Notes	3-6	3-6	3-6	6	1-6	6	2-6	6	6	4-7	4-7
Phoning (5)	\$269.00	449.95	799.00	209.95	399.00	589.00	679.00	1099.00	3272.00	369.95	439.95
With Preset	\$379.00	\$528.95				\$663.00					

Notes:

1. Turns Tribander 470 in 35 seconds

4. TZX and HamIV have same motor and gear train parts

7. 120V normal 220V special order

2. Variable speed 40 sec max

5. EEB prices as of 5/91 subject to change

8. Wind Load in Sq. Feet

3. Variable speed w/SCR constant rotational torque at any speed

6. 120/220 tapped transformer

### THE NEW GENERATION

An entire generation of amateurs have grown up knowing only one rotator manufacturer. Those old favorites are still popular. But, now a new generation of rotators are out to set high standards with innovative features such as: large machined steel gears, cast and machined aluminum cases, solid state controllers for smooth start/stop, preset, computer control and circular position indicators.

The bottom line is... strong, long term reliability, ease of operation and cost effectiveness. When you erect an antenna system the last thing you need is rotor problems!

### CREATIVE DESIGN ROTATORS

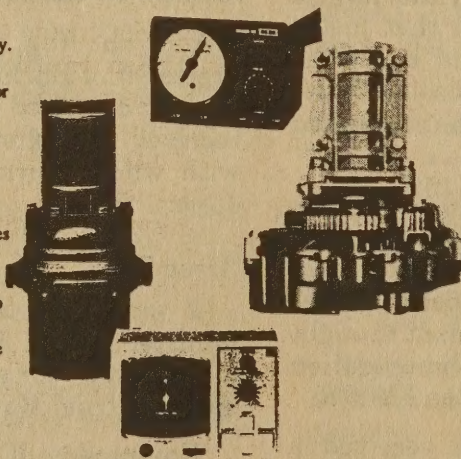
CREATE is serious about long term reliability. The CREATE RCS series rotators were designed with the serious DX'er in mind. Three models for medium, large and ultra large antenna arrays are available.

### ROTOR FEATURES OF RCS SERIES

- \* Large strong reduction gear system provides long term reliability during years of rugged operation.
- \* Worm drive gearing provides powerful braking force and low backlash to keep your antenna in position during severe weather conditions.
- \* Cast and machined aluminum case provide the strength required for long lasting service.
- \* Mast clamp guides for ease of mast installation.

### CONTROLLER FEATURES OF RCS SERIES

- \* Speed control using silicon control rectifiers allows slow speed without reduction in rotation torque. Rotating spec is constant 60 to 200 seconds per 360 degrees.
- \* Reverse delay control (RDC). Delays reverse command to rotor until antenna is at rest. Prevents damage to rotor antenna and tower system.
- \* Circular dial indicator, for quick accurate reading of antenna direction. Great circle overlay available for USA (west-cent-east).
- \* Preset (on 3 models) a must for quick setting of antenna direction. Just turn the knob to the new heading, the rest is automatic. Won't waste your time holding down the brake lever and wait.



### EMOTO ROTATORS

More than 60% of all Japan amateurs use EMOTO rotators. Many unique innovations and international patents have made EMOTO number one.

EMOTO has a fool proof method to calculate which of their rotators will satisfy your needs. This GD<sup>2</sup> formula considers your antenna (s) weight, boom and longest element length. The EMOTO sheet is in metric so one must convert weight 2.2lbs= 1kg and length in meters 3.3ft.=1 meter. Calculate your GD<sup>2</sup> then compare EMOTO GD<sup>2</sup> spec above.

$$GD = W \times \frac{L + B}{12}$$

Where: W: weight of antenna (kg)  
L: length of longest element (m)  
B: length of boom(m)

#### GD<sup>2</sup> EXAMPLES: Kgm<sup>2</sup>

TH7DX (437), TH3JR (63), 205BA (675), DISC7-3 (1300), A3S (61), A4S (173), KLM KT34XA (378), 3 ELE TRIBAND (150), 6 ELE TRIBAND (400), 20M 5 ELE (750), 15M 6 ELE (650), 40M 2 ELE SHORT BOOM (240), 40M 2 ELE FULL BOOM (800), 80M 2 ELE (1500), STACK ARRAYS 10M 5 ELE (60), 15M 5 ELE (200), 20M 5 ELE (750), 60+200+750=1010

EMOTO also has a robust AZ-EL rotator that has computer I/O ports. For those working satellites or EME moon bounce the EV700D5X should do the job, as rotating torque is more than double the YAESU G5400B AZ-EL.



Electronic Equipment Bank 323 Mill Street, N.E. Vienna, Va. 22180  
Phone (703) 938-3350 Orders 800-368-3270  
Call - Write - FAX - for full detailed flyer  
EEB Your Professional Amateur Dealer



# FCC HIGHLIGHTS

## Relaxing the Rules

A recent W5YI Report (Vol. 13, #19, Oct. 1, 1991) addresses potential changes to the FCC's long-standing rule (97.113a) prohibiting business communications in Amateur bands. Private Radio Bureau Chief, Ralph Haller, has suggested that the Amateur community prepare a Petition for Rulemaking with regard to relaxing the rules. We understand that any potential changes are only speculative at this time, however, so we do not wish to add to the confusion. We will keep you advised of further developments in this area. (Note: The editorial on page 4 of this issue points out the hazards of overreacting to incomplete information.)

## Additional RFI Potential?

The FCC has released a notice of proposed rule making (ET Docket 91-269) concerning devices and systems regulated under Part 15 of its rules. The Commission seeks to amend Part 15 To "enable the introduction of home automation and communications systems".

These systems include remote appliance and lighting controls, wireless security systems, and intercoms. "Several companies," the Commission says, "promise substantial benefits with systems that integrate a variety of these functions."

The implications for Amateurs of widespread consumer use of such systems are, of course, great. The deadline for reply comments in ET Docket 91-269 is January 8, 1992. (from The ARRL Letter, Vol. 10, No. 20, October 3, 1991).

## New HF Digital Communications System

The 10th annual ARRL Computer Networking Conference featured a unique new Hf communications system and the attendance of FCC Chief Engineer Dr. Tom Stanley.

Ray Petit, W7GHE, presented his paper, "Clover-II, A Technical Overview," describing a hardware-software system based on digital signal processing techniques to improve both speed and accuracy of HF digital communications. He also conducted an "across-the-room" demonstration of the system.

Other topics presented included papers on data compression and speech processing, by Whit Kinsner, VE4WK, and thoughts on spectral efficiency by Phil Karn, KA9Q.

Dr. Stanley was the guest of ARRL and the conference's banquet speaker. His 45-minute talk included several topics of interest within the Commission, including high-definition television, digital audio broadcasting, and personal communications systems. He also graciously fielded dozens of questions.

Some 135 interested amateurs attended the conference, held in San Jose, California September 27 to 29, 1991. The conference was organized by Glenn Tenney, AA6ER, and a committee of the Northern California Packet Association.

The 161-page bound collection of conference papers is available from ARRL for \$12 plus \$3 shipping and handling. (from The ARRL Letter, Vol. 10, No. 20, Oct. 3, 1991).

## Commercial Testing in our Ham Bands.

The FCC has issued five experimental licenses that permit commercial ventures to develop and test products using spectrum within the confines of certain amateur bands. Two permits have been issued to American Telezone which allow operation in East Texas and Southern California on 2400-2483.5 MHz with up to 10 watts ERP. Omni-Point Data Company was the recipient of a license that permits it nationwide use of 902-928 MHz, 2400-2480 MHz and 5725-5780 MHz with one watt out. The fourth permit was issued to Geosyna Satellite Services to permit their use of a half watt ERP for tests in New Jersey with the final license being awarded to Westinghouse Communications Services to permit experimentation between 1250 to (sic) 1350 MHz at an astounding 126 kilowatt ERP! The Westinghouse operation will take place from a site in Anne Arundel, Maryland. Tnx PHDARC Newsletter. (From Westlink Report, No. 610, October 2, 1991)

(Ed. note: All of the frequencies listed are available to Amateurs on a secondary, non-interference basis).

□ □ □



# WILLIAMS \* ALINCO

## WE MAKE HAMS HAPPY!

**Tired of "Impersonal" service and frustration when Trying to learn about and buy that new radio! Maybe Williams Radio and Alinco is the answer!**

Williams stocks all Alinco radio models and available accesories. You'll love our "personalized" customer service. It's no wonder that Williams was named the #1 Alinco store in 1989 and 1990 and staying right at the top in 1991. We carry ONLY Alinco. High volume sales and low overhead are an advantage to you.

### ALINCO TWIN BAND Mobiles. 45/35 Watts DR-570T - DR-590T

DR-570T - Full featured . DR-590T - removable head, and remote control capable, DSQ. Both models cross-band repeat.

### ALINCO 2-METER Mobiles 45 Watts DR-110T - DR-112T

Small, powerful. Subtone enc/dec incl. DR-110T red LCD, DR-112T black LCD w/org backlight. TT mike, full featured.

### ALINCO HANDHELDS A Model To Fit Your Need! DJ-160T, DJ-560T, DJ-F1T

DJ-160T - 20 mem., DJ-F1T 40 mem. + Aircraft. Both 2M. DJ-560T 2/70 Twin band, Has 20 mem. each band. All Alinco H/Ts have 700 mah batt. paks, approx 3W. All have DC inputs, DSQ, LCD and much more.



**ALINCO**  
ELECTRONICS INC.

*Please add \$4.00 UPS shipping. NO Credit Cards accepted. N.C. residents add 6% Sales Tax. Call for VERY competitive prices. Call for COD UPS and we will PAY your COD costs. For the best overall deal, you can't beat Williams Radio and Alinco. Call!*

**WILLIAMS RADIO SALES**  
600 LAKEDALE ROAD  
COLFAX, N.C. 27235

ORDERS ONLY - NOON to 5:00 PM  
**(919) 993-5881**  
ORDERS & TECHNICAL 7 to 10 PM



# DX DX DX

John Kanode, N4MM

**ALBANIA JOINS THE AMATEUR RADIO COMMUNITY.** The scheduled Albanian operation started on September 17, using the callsign ZA1A. On the 24 of September, ZA1QA and ZA1HA appeared. ZA1HA and ZA1QA are the Hungarian operators who over the past several years have tried to get operating permission in Albania. Nothing official has been received at ARRL about this Hungarian operation, they have been very active on several bands. It has to be assumed that they do have permission to be on the air. I would guess as time goes on, more groups will be allowed to operate from Albania. There was talk of a big operation during the CQ WW DX SSB Contest in late October.

The primary group, ZA1A has made over 25,000 QSO's in the first week of operation. They are operating out of the PTT building in Tirana and seem to be having trouble with TVI or some form of RFI. It is hoped that they can move one or more of the stations into a better location that would give them better access to the station at strange hours and reduce RFI problems. After a week of operation, they are quite easy to work. Some have worked them with five watts and a vertical antenna. At this rate, in several months, ZA stations will not be much rarer than SV, YO and IS. Training of the Albanian students is taking place and several have been heard on the air. It looks like the years of work that Martti Laine and all the others have put into this project have paid off. Hopefully at the next WARC, Albania will be a supporter of Amateur Radio.

## UPCOMING DXPEDITIONS

**NORTH KOREA** -- Rumor has it that RA4HA is in North Korea attempting to establish import/export trade with North Korea. He has applied for an Amateur Radio License and will explore operating possibilities.

**AFGHANISTAN** -- YA2CW has appeared on the 14.256 DX Net. This is F2CW, who is there for a year or so, working with the Red Cross. It appears that he has gotten permission to operate. No other details are known at this time.

## DX CONTESTS FOR NOVEMBER

November 8-10 Japan International SSB DX Contest  
November 9-10 WAEDC RTTY DX Contest  
November 23-24 CQ WW DX SSB Contest

## DXAC NEWS

The ARRL Awards Committee has unanimously accepted the DXAC recommended Point 3 rewrite after consultation between the committees. Text of the newly adopted Point 3 follows:

Point 3, Separation By Another DXCC Country

- (a) Where a Point 1 DXCC Country, composed of one or more continental land areas or of continental land areas and islands, is totally separated by an intervening DXCC Country into two land areas which are 75 miles apart, two DXCC countries result. This distance is measured along the great circle between the two closest points of the areas divided. The measured distance may include inland lakes and seas which are part of the intervening DXCC Country. The test for total separation into two areas requires that a great circle cannot be drawn from any point on the continental land and/or islands of one area to any point on the continental land and/or islands of the other area without intersecting any land of the intervening DXCC Country.
- (b) Where a Point 1 DXCC country, composed entirely of islands, is totally separated by an intervening DXCC country into two areas, then two DXCC countries result. No minimal distance is required for the separation. The test for total separation into two areas requires that a great circle cannot be drawn from any point on any island of one area to any point on any island of the other area without intersecting any land of the intervening DXCC country.

□ □ □



## Local Area Nets

### DAILY

1300 VA TRAFFIC NET 7.26 SSB  
1800 MD EMERGENCY PHONE NET 3.920/ VA SIDEBAND NET 3.947SSB  
1830 VA SLOW NET 3.68 CW  
1900 VA NET (EARLY) 3.68 CW/ MD-DC NET 3.643 CW  
1915 SHENANDOAH VALLEY EMERGENCY NET 146.82  
1930 MD SLOW NET 3.717 CW  
2100 VIENNA WIRELESS SOCIETY POW-WOW NET 28.4 SSB  
2200 MD-DC NET 3.643/ VA NET (LATE) 3.68 CW  
2215 VA LATE NET 3.947 SSB

### SUNDAYS

0900 COFFEE NET 50.4 AM  
1900 MD 6 METER FREE STATE NET 50.125 SSB  
2000 METROVISION ATV AUDIO 144.97  
2100 MD-DC-NVA REGIONAL EC NET 146.91

### MONDAY

1930 HORSETRADERS 147.03  
2000 WOODBRIDGE WIRELESS 147.24  
2030 MD MOBILEERS 146.805  
2100 HERNDON REP GRP 145.31

### TUESDAY

1900 WASH CO 146.94  
1915 WESTLINK REPORT 147.18  
1930 TRI-COUNTY 147.18/ ARLINGTON ARES 145.47  
1930 ST MARYS 146.64/ SPARC 146.985  
2000 MT. VERNON ARES 146.655/ MONT. CO RACES-ARES 146.46  
2000 SMARC 147.15  
2030 ANNE ARUNDEL RC 28.410

### WEDNESDAY

2000 GODDARD ARC 146.835/ CCARS 145.11/NVFMA 146.79  
2030 LAUREL ARC 147.54 SPX 1ST,3RD,5TH  
2100 PG COUNTY ARES 147.18/ FAUQUIER ARC 147.165  
2100 1st Wed ASTROMONY 147.03

### THURSDAY

1900 FOUR STATE NET 147.09/ WASH CO 147.09  
1930 VIENNA WIRELESS EMERGENCY NET 146.685/CARROL CO NET 28.450  
2000 ALEXANDRIA RC 147.315/OLE VA HAMS 146.97/SMARC 28.447  
2000 BRATS ATV NET 147.03  
2030 ANNE ARUNDEL RC 174.105/ DEPT OF STATE 145.19  
2100 ALEX ARES 147.315/ VIENNA WIRELESS TRAFFIC 28.01 CW  
2100 DX NET 147.03

### FRIDAY

2100 BRATS PACKETS NET 147.03

### SATURDAY

1200 NVFMA RADIO CLINIC 146.79  
1300 AMATEUR INFO NET 147.03  
1400 BRATS ANSWER MAN 147.03  
2000 MCNRC NET 52.25/53.25 AND 144.95

### EMERGENCY ONLY--AS REQUIRED

SKYWARN 147.30  
PG WX NET/ SKYWARN 147.18  
W/E AND HOLIDAYS

4/1-11/15 CHESAPEAKE BAY WX AND TRAFFIC NET 147.105 1100 & 1500

Information provided by Chuck Sommer, N4OSD



**FOUNDATION FOR AMATEUR RADIO**  
**Volunteer Examiner Cooperative**

Nancy Draheim - NK4U  
3513 Old Post Road, Fairfax, VA 22030  
(703) 691-0078

**SCHEDULE OF EXAMINATIONS**  
**1991**

**IMPORTANT NOTE:** If you now have a Technician class license which was acquired prior to March 21, 1987, have a copy of it available when you decide to upgrade.

**EXAMS**

- Oct 26 Virginia Mountain ARC (Clifton Forge, VA) (ARRL VEC) Walk-in  
Contact: Gary Bostic (703) 747-3193
- Oct 27 Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration  
Contact: Norma Jean Bollinger, NC3X (717) 597-8231 (Before 9:00 p.m.)
- Nov 2 University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-ins  
Contact: Scott Rosenfeld - NF3I (301) 513-5932
- Portsmouth ARC (Portsmouth, VA) (ARRL VEC)  
Contact: Art Thiemens, AA4AT (804) 484-2857
- Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins  
Contact: Walt Quitter, NC4B (703) 869-5241
- Nov 9 Anne Arundel Radio Club (LARC VEC) Pre-registration requested  
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- Ole Virginia Hams ARC (Manassas, VA) (ARRL VEC) Walk-in  
Contact: Harry Vorhauer, W4PVA (703) 368-6050
- Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Pre-registration requested.  
Contact: Frank Mackey, N4GUS (703) 455-1510
- Woodbridge Wireless (Woodbridge, VA) (ARRL VEC) Walk-in  
Contact: Jim Neff, WJ4M (703) 297-5515
- Nov 10 Bedford ARC (Bedford, VA) (ARRL VEC) Walk-in  
Contact: John Creel, WB3GXW (301) 572-5124 after 6:00 p.m.
- Nov 16 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable  
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC)  
Contact: Bill Runyon, N4BDH (804) 487-8611
- Richmond (Richmond, VA) Walk-in  
Contact: Ron Bolton, WU4G (804) 798-5191
- Albemarle ARC (Charlottesville, VA) (ARRL VEC) Walk-in  
Contact: John Gray (804) 973-1094
- Nov 21 Rockville, MD (Laurel VEC) Limited walk-in  
Contact: John Muller, W3QF (301) 564-0178

(Continued)



## Volunteer Examiner Cooperative - Continued

- Nov 29    Stafford Area Repeater Assn. (Stafford, VA) (W5YI VEC) Walk-in  
Contact: David Boyd, K9MX (703) 659-6241
- Dec 7    Montgomery College (Germantown, MD) (ARRL VEC) Limited Walk-in  
Contact: John Muller, W3QF (301) 564-0178
- Virginia Beach ARC (Virginia Beach, VA) (ARRL VEC)  
Contact: Ed Robison, WD4GOY (804) 468-0866
- University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-ins  
Contact: Scott Rosenfeld - NF3I (301) 513-5932
- Dec 8    Goddard & Tri-County ARC (Largo, MD) (Laurel VEC) Walk-in  
Contact: John Creel, WB3GXW (301) 572-5124 after 6:00 p.m.
- Dec 9    Southern Maryland ARC (Temple Hills, MD) (Laurel VEC)  
Contact: Ray Simpson, WI3A (301) 894-0606
- Dec 14    Anne Arundel Radio Club (LARC VEC) Pre-registration requested  
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- PROS (Salisbury, MD) (Laurel VEC) Walk-in  
Contact: Dave Bridge, KB3MT (301) 436-8360
- Massanutten ARA (Harrisonburg, VA) (ARRL VEC)  
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)14
- Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Pre-registration requested.  
Contact: Frank Mackey, N4GUS (703) 455-1510

### 1992

- Jan 11    Anne Arundel Radio Club (LARC VEC) Pre-registration requested  
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- George Washington U/Department of State (Washington, D.C.) (ARRL VEC) Walk-in  
Contact: Derrill Rohlf, W3WOX (301) 620-1727
- Feb 8    Anne Arundel Radio Club (LARC VEC) Pre-registration requested  
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- Feb 22    Vienna Wireless Society (Vienna, VA) (ARRL VEC) Walk-in  
Contact: Ron Natalie, WO2L (703) 620-1727

NOTE: All examinations require that you submit:  
Copy of your current Amateur Radio license (bring original)  
Completed FCC Form 610.

Check for appropriate examination fee.

Fees of individual VEC may vary.

ARRL Exam fee is \$5.25

W5YI Exam fee is \$5.25

Laurel VEC all exams are free.

Mountain VEC all exams are free

If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

This schedule of examinations appears each month in Auto-Call Magazine  
Sponsored by the Foundation for Amateur Radio



# Training Classes

**Robert Armstrong, WA4SQL**

44 South French Street, Alexandria, VA 22304

Phone (703) 751-2294

**Novice/Technician Training Classes, Herndon, VA.** Sponsored by the Herndon Repeater Group. Watch for new class dates in coming months. HRG is looking into running Novice/Tech courses twice a year and upgrade classes if there is enough interest. For information contact Michael Rosati - N4FXP at (703) 481-8380 or Mike Weber - WB8RDN at (703) 450-2304 between 7:00 and 9:00 p.m.

**Novice Training Classes, Baltimore, MD.** Sponsored by BRATS. Classes are being held on an on-going basis every Friday evening at American Red Cross; 4700 Mt. Hope Drive, Baltimore (near Reisterstown Road Plaza Metro Station). Class is free; Materials (which you can keep) consist of a book and tape and cost \$19.90. For registration or information, contact Al Dixon - N3HOE (301) 833-5735.

**Novice and Upgrade Classes, Lexington Park, MD.** Sponsored by St. Mary's County Amateur Radio Assn. For further information call (301) 862-2214.

**Novice Training Classes, N.W. Washington, DC.** Sponsored by MADRAS. For more information contact Larry Zeichek - N3GKZ (301) 984-6112.

**VIRGINIA TRAFFIC TRAINING NET - 3685 kHz 6:30 p.m. daily. 5 - 8 wpm.**

**SLOW CODE PRACTICE NET, 28.250 MHz 7:00 to 8:00 p.m. Wednesdays. Sponsored by Woodbridge Wireless, Inc.**

## GENERAL INFORMATION

Alexandria Radio Club  
Anne Arundel  
Arlington ARC  
Baltimore ARC  
BRATS  
Chaverim, Inc.  
Fauquier ARC  
Frederick ARC  
Herndon Repeater Group  
Laurel ARC  
MADRAS  
Maryland Mobileers  
Montgomery ARC  
Mount Vernon ARC  
NASA/Goddard ARC  
Ole Virginia Hams  
Pentagon ARC  
Rock Creek ARA  
St. Mary's County ARA  
Shenandoah Valley ARC  
Southern Maryland ARC  
Southern Patuxent ARC  
Sterling Park  
Tri County ARC  
Vienna Wireless  
Woodbridge Wireless

Harry Jones - N4CWP (703) 204-1781  
Tony Young - WA3YLO (301) 262-1917  
Fred Bardsley - WD4DHW (703) 533-0372  
Phone 1-800-HAM FEST - VB  
Al Dixon - N3HOE (301) 833-5735  
Bob Teitel - W3IDT (301) 654-3484  
Bill Mills - KC5PF (703) 937-4090 (H), 818-3955 (O)  
Steve Bauman - W3FOA (301) 662-4552  
Michael Rosati - N4FXP (703) 481-8380  
Pud Reaver - W3DQI (301) 498-6293  
Larry Ziecheck - N3GKZ (301) 984-6112  
Bill Dillon - WA3SCW @ WB3V in Packet  
Ken Nichols - KA3KGL (301) 977-5405  
John Forrest - WZ4A (703) 971-3905  
Vikki Gigante - KA3PVS (301) 249-2609  
John (703) 791-5995  
David Boyd - K9MX (202) 697-0630  
Walt Ramsey - AK3B (301) 949-3954  
Call (301) 862-2214  
Guy Black - W4PSJ (703) 722-4952  
Vic Curtis - WA3YUV (301) 888-1388  
Dwayne Kincaid - WD8OYG (301) 586-2177  
Art Nevins - WA4NTP (703) 437-9382  
Al Sines - WA3QGA, Box 710, College Park 20740  
Paul Wilkins - AB4CY (703) 560-2779  
Lloyd Davis - K8EI (703) 360-0248



2nd Annual

# MASON-DIXON

## COMPUTER & HAMFEST



SUNDAY, NOVEMBER 3, 1991  
CARROLL COUNTY AG CENTER  
SMITH AVENUE, WESTMINSTER, MARYLAND



ADMISSION - \$5.00 (DRIVER, SPOUSE & CHILDREN UNDER 16 YRS)  
TAILGATING - ADDITIONAL \$5.00 PER 12' SPACE  
ADVANCE REGISTRATION FOR CAMPING REQUIRED  
6:00 AM VENDOR & TAILGATING SET-UP  
8:00 AM GENERAL ADMISSION  
RAIN OR SHINE  
SAME GREAT FOOD

### VE EXAM INFORMATION

PREREGISTRATION FOR VE EXAMS STRONGLY ADVISED  
PREREGISTRANTS HAVE PRIORITY  
YOU MUST HAVE YOUR ORIGINAL FCC LICENSE AND 1 COPY  
2 FORMS OF ID REQUIRED (1 WITH PHOTO)  
EXAM FEES ARE CASH ONLY  
REGISTRATION BEGINS PROMPTLY AT 8:00 AM  
NO ADMITTANCE AFTER 9:00 AM

FOR ADVANCE TABLE OR CAMPING REGISTRATION  
MAIL TO: MASON-DIXON COMPUTER & HAMFEST  
P.O. BOX 2099

WESTMINSTER, MD 21157

OR CALL: DENNIS BALDWIN, KA3IXG (301) 239-3878

FOR ADVANCE EXAM REGISTRATION  
MAIL TO: PAGE EVANS, NE3P

798 GETTYSBURG ROAD  
LITTLESTOWN, PA 17340

OR CALL: (717) 359-7610

SPONSORED BY THE PENN-MAR & CARROLL COUNTY AMATEUR RADIO CLUBS

SEE REVERSE SIDE FOR MAP



# SKYWARN - Amateur Radio Weather Net

SKYWARN NET Manager: Daniel Gropper - KC4OCG Tel: (703) 281-2358 (703) 281-7458  
Assistant Net Manager: Judy Lewis - KC4WES Tel: (703) 830-3495 (703) 830-7325  
National Weather Service Forecast Office, Washington, DC (Located Near Dulles Airport)  
For General Information on SKYWARN call Barbara McNaught or Melody Hall at (703) 260-0209.

---

SKYWARN is a National network of volunteer severe weather spotters. The main purpose of the Ham Radio SKYWARN Net is to provide the National Weather Service (NWS) with timely and accurate severe weather observations via Amateur radio. These reports are used by the NWS in determining the potential dangers of storms and in issuing information and warnings to the public of possible weather hazards.

When severe weather is anticipated, the NWS activates SKYWARN and alerts the National Capital Area EC's and Asst. EC's by pager. The pagers were provided by the Foundation for Amateur Radio (FAR), a 501(c)(3) non profit federation of more than fifty (50) ham radio clubs in the Greater Washington/Baltimore area.

The SKYWARN Net Manager, an American Radio Relay League (ARRL) volunteer field appointee, arranges staffing of the NWS Amateur station when requested by the NWS. The SKYWARN net controllers who are asked to go to the NWS are experienced ham operators who have successfully completed special SKYWARN Net Controller training.

The Amateur Radio community is alerted of SKYWARN's activation by (1) WA4TSC Bluemont Repeater 147.300 Mhz automatically announcing the activation through "WEATHER NET or WEATHER ALERT" messages approx every 10 minutes and (2) NOAA weather radio announcing "SKYWARN ACTIVATED" over 162.55 Mhz and 162.475 Mhz. NOAA weather radio is also rebroadcast on certain cable TV channels.

The NVFMA 146.79 (Fairfax) and 146.91 (Tysons Corner) repeaters are the designated backup repeaters. The 146.91 repeater will also announce that the SKYWARN net has been activated on 147.300 Mhz.

The net controller asks for reports of severe weather per the NWS' criteria which is then relayed to the forecasters. The net controller will also keep a written log of reports and may ask hams in certain areas of interest to the NWS to periodically report back into the net.

SKYWARN-HAMS should have completed Basic SKYWARN weather spotter training.

At approximately 3:30 p.m. on Wednesday, September 18, the Washington, DC Office of the National Weather Service activated Skywarn for severe thunderstorms moving through the area. Although an initial thunderstorm, approaching Dulles Airport from the west, quickly died out, a line of thunderstorms was forming on a line extending from the eastern panhandle of West Virginia through Northern Virginia to the western counties of Maryland. These thunderstorms were accompanied by strong gusty winds and hail and many inches of rain that caused localized flooding and knocked down large trees.

Net control at the Weather Service was staffed continuously from 3:30 p.m. through 3:30 a.m. in overlapping shifts by KC4UBT, KC4UBM, K2HJ, W8HNT, KC4VCV, K5RJ, KB2CEV, WB4EEA, and KC4OCG. N4CWP, W4LFO and KK4GB also volunteered to take shifts should the net run later. Approximately 135 messages were passed through the net to the forecasters from Skywarn Amateur Radio spotters. A number of real time dramatic reports were received including reports from KD4AIX north of Winchester who was on the air when a two-foot diameter tree fell near his shack. Numerous additional reports were received directly and through relay nets from the Hagerstown and Martinsburg areas over which the storm sat for many hours. These reports were immediately conveyed to the forecasters who based many of their watches and warnings on these observations. The watches and warnings were immediately put out over NOAA Weather Radio and other weather service communications channels. The Skywarn ham reports were especially critical in view of the NWS' inability to use satellite imagery from the GOES satellite because this weather event occurred during a test of the NWS operations without GOES.

(Continued)



## SKYWARN - Continued

### ARES Virginia Activation For Telephone System Failure.

We would like to thank the WA4TSC repeater group and the users of that machine for permitting Skywarn to have primary use of the machine during the operation.

On Wednesday, June 26, the Northern Virginia Amateur Radio Emergency Service (ARES) was activated to assist in backup communications due to a regionwide telephone failure. Some time after noon, a major telephone switching computer in Baltimore experienced a major failure. Telephone service in a four state area (MD, VA, W. VA and DC) was affected to different degrees; while some areas retained normal service, others found themselves limited to local service and some residents were unable to access 911. Cellular telephone and repeater auto-patch were adversely affected.

At approximately 3:30 p.m. the ARES pagers were set off alerting the Emergency Coordinators (EC's) to check in on 146.91 (NVFMA Repeater) to coordinate a regionwide (Fairfax, Arlington, DC, Montgomery and Prince George's County) plan of action.

Many EC's answered the page including Virginia Section EC Steve Czaikowski WB4ZTR; District EC Harry Jones N4HCP; in Fairfax County: EC Bob Lewis N4SCK, and Asst. EC's Judy Lewis KC4WES, Ed Ober KC4EFJ, Dan Gropper KC4OCG, Steve Tedesco KB2CEV, Steve Schneider WB4EEA and Dickson Lum NH6E and in Arlington, Rick Bunn N4ASX (through XYL).

SEC Steve WB4ZTR informed the net that he was in contact with the Virginia State Office of Emergency Preparedness and it was decided that the emergency would be handled on a local basis with each area EC making inquiries with the locally served agencies to determine needs. Hank Black N3ESR reported the status of telephone service in each county in Maryland on the 146.91 repeater from the Montgomery County EOC. The ham's manning the Arlington Red Cross also checked in on 146.91 to coordinate their efforts.

In Fairfax, Bob N4SCK and Judy KC4WES were asked by the Fairfax County Emergency Operation's Center (EOC) to set up a command post in the parking lot in front of the EOC to be able to relay rush hour accident traffic that would normally be conveyed via auto-patch or cellular phone. On instructions

from BOB N4SCK, Dan KC4OCG set up a station at his QTH to make telephone calls to local area hospitals and police agencies to determine if they required Amateur radio communication assistance. Fairfax Hospital, the Fairfax Branch of the American Red Cross, Fairfax City Police, Town of Vienna Police, Mount Vernon Hospital and Fair Oaks Hospital were contacted. On request from Fair Oaks Hospital, through N4SCK, Ed KC4EFJ and Donna N4URL set up a station in the lobby of Fair Oaks Hospital to provide back-up communications in the event that the doctor paging system failed or the telephone system had a complete failure.

Many other hams checked into the net on 146.91 for instructions. They were advised to monitor various frequencies including the NVFMA's 146.79 repeater and to relay traffic onto 146.91 in case of further need. The NVFMA's 220 and 440 repeaters were also used to relay administrative traffic.

The net closed when telephone service was restored at 2000. The Ham community was thanked for giving priority to the net traffic.

On September 28, KB4CVL, W4NUA, NH6E and KC4OCG put up a second Diamond dual band (2M/70 CM) omni antenna, and a 2-meter beam, on the 50 foot tower at the weather service. Two runs of Andrews hardline were also terminated. This gives the Skywarn desk the ability to simultaneously use three 2-meter frequencies and two 440 frequencies. The plan is to use the 147.300 WA4TSC repeater (as always) for the primary net; the 444.400 Luray repeater (and the other four repeaters usually linked to Luray) as primarily a listening net for weather farther out of the Washington area. As needed, other 2-meter repeaters from Stafford to Waldorf may be accessed as the storm moves. Packet most likely will be on 440.

Thanks to WA2WDT for providing the ARES database software for packet which is being worked on by KB2CEV. Hopefully the weather service will have packet by winter for local snow/storm reports. WA2RIA is thanked for the donation of a 20 Amp power supply, and KB4IKU and K4FHK for the donation of a Ringo Ranger to the Skywarn program.

Daniel R. Gropper - KC4OCG



## Recognitions

**Congratulations to Stu Meyer - W2GHK** on being appointed to provide federal liaison services for Ericsson/General Electric.

**Congratulations to Bill Tynan - W3XO** on becoming Executive Vice President of AMSAT. Bill was a founding member of AMSAT and has been a very active member ever since. He will replace Dr. John Champa - KØOCL.

**Congratulations to the new Radio Club of America Fellows: John Kanode - N4MM, John Swafford - W4HU, Kay Craigie - KC3LM, David Sumner - K1ZZ.** The Radio Club of America confers the grade of Fellow in recognition of outstanding members who have made exceptional contributions to the art and science of radio communications and electronics. Awards will be presented at the Club's Annual Award Banquet in New York on November 22nd.

## Silent Keys

**Harold (Hal) Low - WA3WYI** became a Silent Key last month. He was a former SM for Delaware and was a steady check-in to the Maryland Emergency Phone Net. He is survived by his wife, Ginny - WB3DUG, who shared his interests in the nets and continues to be active on the MEPN. Hal was truly a ham who will be missed on the East Coast.

Submitted by W3DQI

---

## SKYWARN TRAINING SCHEDULE

### Preliminary Schedule

#### November

- |               |  |
|---------------|--|
| Nov 8 (Fri)   | Basic Spotter training class, 7:00 - 10:00 p.m.<br>Vienna Community Center - Sponsored by Vienna Wireless<br>Vienna, VA.   |
| Nov 14 (Thur) | Basic Spotter training class, 7:00 - 10:00 p.m.<br>Martinsburg, W VA   |
| Nov 23 (Sat)  | Skywarn Basics II training class, 1:00 - 3:00 p.m.<br>National Weather Service, Washington Forecast Office<br>Sterling, VA |

#### December

- |               |   |
|---------------|---|
| Dec 4 (Wed)   | Winter Storm class, 7:30 - 9:30 p.m.<br>National Weather Service, Washington Forecast Office<br>Sterling, VA              |
| Dec 5 (Thur)  | Basic Spotter training class, 7:00 - 10:00 p.m.<br>Front Royal, VA  |
| Dec 10 (Tues) | Skywarn Basics II training class, 7:00 - 9:30 p.m.<br>Montgomery County Office of Emergency Preparedness<br>Rockville, MD |

There is no charge for the classes. Pre-registration is required.  
For registration and further information call the National Weather Service Office: (703) 260-0209.



# Public Service Report

Hank Black - N3ESR

(301) 340-8595

---

*Material for the PUBLIC SERVICE REPORT can be left to N3ESR on the WA3ZNW packet bulletin board on 145.090 MHz, called by telephone, or mailed electronically by modem on arrangements, or mailed to Public Service Report, 105 North Van Buren St., Rockville, MD 20850-1860. Deadline for receipt of material is the third of the month.*

*Deadline for receipt of material is the third of the month.*

---

## NEW COORDINATORS FOR ARES/ RACES LISTINGS IN VIRGINIA

Since the last issue, it was decided to add District 6 listings to those being carried in Auto-Call. Also, some late changes have occurred. Harry Jones, N4CWP, District Emergency Coordinator for the National Capital District #2, resigned citing increased work requirements with his job.

Steve Czaikowski, WB4ZTR, Virginia Section Emergency Coordinator, has appointed Bob Lewis, N4SCK, as the DEC for the National Capital District #2. Also, Rick Bunn, N4ASX, has been appointed Emergency Coordinator (EC) for Arlington County and Ed Ober, KC4EFJ, has been appointed EC for Fairfax County replacing Bob.

Listings for National Capital District #2 are:

DEC ..... Bob Lewis, N4SCK, (703) 830-3495  
Alexandria EC ..... Rich Adamy, KA4GFY (703) 931-2917  
Arlington EC ..... Rick Bunn, N4ASX (703) 685-7765  
Fairfax County EC ..... Ed Ober, KC4EFJ (703) 591-0422  
Fauquier County EC ..... Bob Taylor, KC4CVG (703) 439-2786  
Loudoun County EC ..... Bill Roemer, K3CUU (703) 554-2523  
Military District of Wash ..... Dick Lum, NH6E (703) 938-9215  
Prince William Co. EC ..... Harry Vorhauer, W4PVA (703) 368-6050  
SKYWARN Net Manager ..... Dan Gropper, KC4OCG (703) 281-7457

Listings for Virginia Capital District #6 are:

DEC ..... VACANT - (Contact WB4ZTR if interested)  
Chesterfield County EC ..... Joe Gagliano, KJ4RG (804) 748-6985  
City of Richmond EC ..... Bill Kidd, KA4UND (804) 282-1207  
Dinwiddie County EC ..... (VACANT)  
Goochland County EC ..... Glenn Swanson, KB1GW (804) 556-3357  
Hanover County EC ..... (VACANT)  
Henrico County EC ..... Dennis Wyman, KB4DCE (804) 737-8386  
Prince George County EC ..... Doug Edwards, N4KDE (804) 541-3528  
King & Queen County EC ..... (VACANT)  
King William County EC ..... (VACANT)  
New Kent County EC ..... Ray Campbell, WA4OVW (804) 566-0681  
Powhatan County EC ..... (VACANT)  
Charles City County EC ..... Gil Frey, N4JST (804) 829-2240  
SKYWARN Net Manager ..... Billy Walton, KC4ETD (804) 795-2393

Add to the previously published listing of Official Emergency Stations in Virginia Districts:  
Virginia Capital District #6

Earl Bishop, N4EXQ  
Joyce Dolby, WB4PNY  
Ralph Fetty, N4EHJ  
Gil Frey, N4JST

These listings and changes are effective as of September 21, 1991.



## Foundation For Amateur Radio Scholarship Program

*The Foundation For Amateur Radio is pleased to introduce the winners of the thirty-eight scholarships which have been awarded this year. There were winners from seventeen different states. Ten are from the local area.*

*Four of the scholarships were funded directly by the Foundation for Amateur Radio and six more were funded by Foundation member clubs. Other scholarships are funded by various organizations or individuals and are administered by the Foundation without cost.*

*For more information on the FAR Scholarship Program, see page 31.*

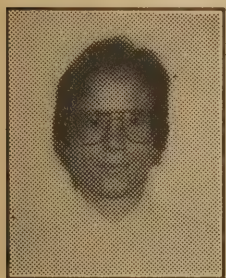
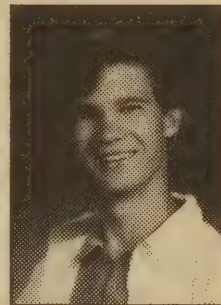


**Elisa A. Niemtzow, KA6WYY - Gaithersburg, Maryland  
Baltimore Amateur Radio Club Scholarship - \$1000**

She was licensed at the age of 8 and had her Extra Class at age 11. Born in France, she is majoring in French with a minor in International Relations. She will be attending the University of Pennsylvania. She has an outstanding academic record and worked during the past summer at the French Embassy in Washington DC. She was President of the French Honor Society in high school and was also Editor-in-Chief of the school paper. She is also active with the Montgomery County Central Democratic Committee. Elisa finds DXing particularly appealing. Her father is N5EV, brother is NM3T.

**Christopher A. Chadwick, KA3TII - Kensington, Maryland  
Columbia Amateur Radio Association Scholarship - \$1000**

Christopher holds a Technician Class and is part of a large ham family which includes both grandparents - WB8FAA and KA8ASP, two uncles - WB8FAB and W8CPE, his father - KD3IQ, and younger sister- KA3TMI. He is active on 10-meters and 2-meters and enjoys the opportunity to talk with other Amateurs around the world. He had a significant amount of extra curricular involvement in high school and maintained an excellent academic record. He will be starting his freshman year at Johns Hopkins where he will major in Behavioral Biology. He plans to become a psychiatrist and neurologist.

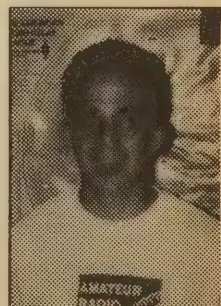


**Rosemary L. Falcon, N3IVO - Owings Mills, Maryland  
Baltimore Amateur Radio Club Scholarship - \$1000**

Rosemary plans to seek a Masters Degree in Anatomic Pathology at the University of Maryland. She now holds a BS in Medical Technology from Michigan State University and has worked as a Medical Technologist for nine years. She is now seeking a career change. She would like to do medical research or teaching. She has a long history of volunteer experience including being a member of the Red Cross Disaster Team. She holds Technician Class license and is active primarily on 2-meters. As might be expected, her primary interest is in disaster communications and emergency services. Her brother is N2JOM.

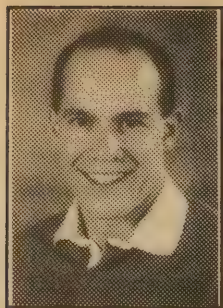
**Aaron S. Brickman, N3FBN - Potomac, Maryland  
Baltimore Amateur Radio Club Scholarship - \$1000**

Aaron will be majoring in International Relations at American University. He has worked as a Student Intern at the U.S. Information Agency in Washington DC and hopes he might become a U.S. Foreign Service Officer. His ham family includes his father - W3FYH, mother - N3FPP, and sister - N3FOF. He holds Advanced Class license and is active on most bands and most modes. He enjoys Contesting and DXing and has 280 countries confirmed. He is active with ARES/RACES and holds membership in a number of local area Amateur Radio clubs. He also enjoys track and field.





## Scholarship Winners



**Kurt W. Rupprecht, N3EOI - Salisbury, Maryland**  
**Kevin Barry Perdue Memorial Scholarship - \$1000**

**Sponsored by Kay (KC3LM) and Carter (KD3AO) Craigie**

Kurt is in his senior year at Mary Washington College where he is studying Political Science. He is looking toward a career devoted to government service. He is interested in both domestic and international affairs and hopes to pursue the specific area of service in which he can make the greatest contribution. He holds Technician Class license and is active primarily on 2-meters. He has been very active in extra curricular activities and has served as president of a number of school organizations. Other hams in the family are K3NOQ and N3EIH.

**Maurice E. De Vidts, NE3S/CE3HWZ - Silver Spring, Maryland**  
**John W. Gore Memorial Scholarship - \$1000**

**Funded by the Foundation For Amateur Radio**

Maurice is in his senior year at the University of Maryland, having transferred from the University of Chile. He is carrying a double major in Electrical Engineering and Mathematics and plans to continue graduate work in engineering. He plans to do research in the telecommunications area. He feels engineering plays a vital role in setting the quality of life in our society. He holds Extra Class license and is active on 70 cm through 20-meters. He particularly enjoys space communications and has built his own satellite tracking hardware/software.



**Andrew S. Faiola, N3GLA - Silver Spring, Maryland**  
**Frederick Amateur Radio Club Scholarship - \$1000**

Andrew has completed two years at the Washington University of St. Louis, Missouri where he is majoring in Economics with a minor in Spanish. He plans to go into advertising and hopes to make some changes. "With a distaste for much current advertising," he thinks he can introduce some innovative ideas and create memorable campaigns. He holds Technician Class license and is active on 2-meters and 70 cm. He is most interested in DX and helping out in emergencies. He also enjoys photography and cinematography. Other Amateurs in the family are K3WX and WA3JSC.

**Christopher C. Peters, KB4MRH - Millboro, Virginia**  
**Victor C. Clark Memorial Scholarship - \$1000**  
**Sponsored by Vienna Wireless Society**

Christopher has completed his freshman year at Virginia Tech where he is studying for a degree in Electrical Engineering. He says he has always had an interest in radio and electronics and hopes to find work that will allow him to keep up with the latest advances in this field. He holds Advanced Class license and operates on 2-meters through 80-meters but his activity has been curtailed because of school. He particularly enjoys HF and ragchewing and has been active in the planning of the Vienna Wireless Society public service events.

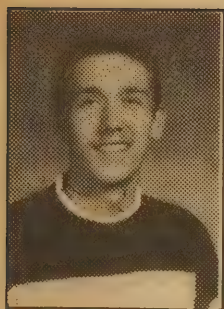


**Rebecca B. Knoll, N4JST - Staunton, Virginia**  
**QCWA Robert S. Cresap Memorial Scholarship - \$750**

Becky is in her senior year at Southern College, Collegedale, Tennessee. She wants to become an attorney and is majoring in History - Pre Law. She feels law provides an endlessly changing opportunity, and a degree in History will be an asset because "its emphasis on social patterns and human experiences provides a historical frame of reference for the past while showing the possibilities for the future." She holds a General Class license and is active on 2- through 75-meters SSB and CW. Her ham family includes Dad KR8C, Mom KR8D, Brother KB4KRC, Grandmother KA8JVF, Gandmother N8EDH, Aunt N9DEY.



## Scholarship Winners



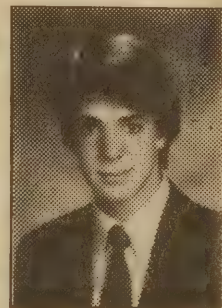
**Thomas R. Knoll, KB4KRC - Staunton, Virginia**  
**QCWA Memorial Scholarship - \$750**

Thomas is entering Southern College, Collegedale, Tennessee, where he will major in Pre-Med. His ambition is to become a surgeon. He holds a General Class license and is active on 2-meters through 75-meters. He enjoys talking to friends who live far away and DXing as time from school will permit. He also enjoys traffic handling. Other hams in his family include his father, mother, brother, both grandmothers and an aunt. He received several achievement awards in high school and has been employed during the summers at Potomac Corporation in Staunton, VA as an Assistant for Auxiliary Services.

**Michael T. Decerbo, N1FYO - Staunton, Virginia**  
**Radio Club of America Scholarship - \$650**

**In Memory of J. Alan Biggs, K4AA**

Michael is entering the Massachusetts Institute of Technology, Cambridge, MA. He will major in Electrical Engineering/Computer Science. He feels these subjects are at the heart of today's technological, information-based society. He would like to work in politics, science, or business involving the "re-opening" of Russia. He is taking a minor in Russian. He holds General Class license and enjoys DXing as time will permit. He had an excellent academic record in high school and was involved in many extra-curricular activities.



**Michael R. Borbath, N4UVW - Clearwater, FL**  
**Dade Radio Club Tropical Hamboree Scholarship - \$1000**

Michael has completed three year at the University of Florida, Gainesville, FL. He is studying Electrical Engineering with a minor in Physics. He is particularly interested in Satellite Communications and hopes to find a career involving the development of low cost communications equipment. He has been active with the Goddard ARC in repeater cross linking and preparing NASA Select Shuttle Rebroadcasts. He has been teaching Novice classes at the University of Florida for the past 2 years. He holds Advanced Class license and is active on 40-meter phone/CW, 10-meter phone ad 2-meter phone and packet.

**Aaron A. Algieri, KC4NGA - Seminole, FL**  
**Dade Radio Club Tropical Hamboree Scholarship - \$1000**

Aaron is currently a senior at the University of Florida and expects to graduate in December of this year. He is majoring in Food Science and plans to work in flavor research and in the development of improved food processing methods. He considers Food Science a challenging combination of physics, chemistry, biology, microbiology, and mathematics. Graduating from the CB ranks with a Novice license last year, he passed his Advanced Class 4 months later. He works all bands 80-meters to 440 MHz, is active in ARES and the VE program and enjoys building simple QRP transmitters and working with computer type circuitry.

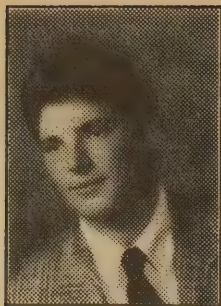


**Laurina M. Wilcox, KF0FA - Cedar Rapids, IA**  
**Richard G. Chichester Memorial Scholarship - \$900**

Laurina is entering the Iowa State University where she is majoring in Oceanography. Combining her interests in earth studies, research, foreign intelligence and travel, she plans to become an officer in the Navy after graduation. She hold Extra Class license and operates 20-meter and 30-meter CW and 2-meter FM. She particularly enjoys ragchewing on CW and helping others get into Amateur Radio. Her father is KF0AD and stepmother is KB0DNA. She received a number of academic awards while in high school and was valedictorian of her class. She is also an advanced open water scuba diver.



## Scholarship Winners

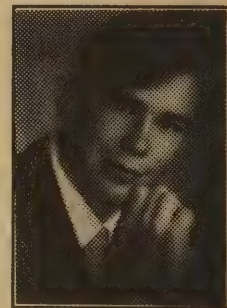


**Shelley E. Weiss, KB9BBB - Highland Park, IL**  
**South Milwaukee Amateur Radio Club Scholarship - \$500**

Shelley is entering Washington University, St. Louis, MO as a Biology major. He hopes to go into medicine or perhaps medical research. He got his first license at the end of his high school freshman year and became an active member of the school ham club. He holds Technician Class license and enjoys ragchewing on 10-meter SSB and 2-meter FM, and also does some CW on 15-meters. He received a number of scholastic honors in high school and graduated as a member of the National Honor Society and with awards in science and journalism. He was co-editor of the school yearbook.

**Michael W. Barton - KB9AQR - Washington, IL**  
**South Milwaukee Amateur Radio Club Scholarship - \$500**

Michael is majoring in Electrical Engineering at Valparaiso University, Valparaiso, Indiana. He hopes to become an electronic design engineer. He was introduced to Amateur Radio via the Cub Scouts and the Scout Jamboree On The Air. This introduction prompted him and his father to study for their Amateur licenses at a local Amateur Radio Club. They both became Technicians and are now looking forward to upgrading to General in the near future. He is active on 2- and 10-meter voice and 15- and 40-meter CW. His father is KB9ATO. Mike became an Eagle Scout at the age of 12 and earned 63 merit badges!

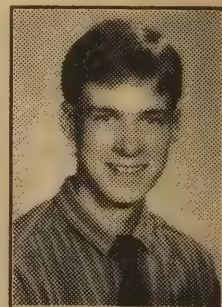


**Jonathan J. Fournier, KA1MPG - Webster, MA**  
**QCWA Cresson F. Donbar Scholarship - \$750**

Jonathan will be a senior this year at the University of Massachusetts, Amherst, MA. He is studying Electrical Engineering and hopes to teach at the college level. He feels there will be a great need for engineers and technicians in the 21st century and by teaching he can help solve some of the country's problems. He holds Advanced Class license and operates on 80- through 10-meters SSB and 2-meter FM and packet. He is active in traffic nets and public service events and assists in teaching Novice classes. He has received a number of scholastic awards. His father is KA1MPI.

**Jason G. Lovett, N1EJD - Arundel, ME**  
**10-10 International Net Scholarship - \$750**

Jason has completed his first year at the University of Maine where he is pursuing a course in Civil Engineering. He would like his career to be centered on environmental concerns. Clean and efficient ways of disposing of our rubbish and community recycling plans are some of the most important issues facing us in the future. He holds General Class license and is active on 160- and 80-meters SSB and 2-meters FM. He is Assistant Emergency Coordinator for York County ARES/RACES and enjoys traffic handling and "mountain topping." His grandfather is W1ALL.



**Sean W. Kelley, WM1L - Portland, ME**  
**Amateur Radio News Service Scholarship - \$600**

Sean is in his third year at the Maine Marine Academy where he is pursuing a course in Marine Engineering. He is currently completing a training cruise in the Far East. The sea is an environment that has always fascinated him and he has always wanted to pursue an engineering profession. As a marine engineer he can fulfill both interests. After a few years of shipping he would like to settle down in a landside job. He holds Extra Class license and is active on 10- and 15-meters SSB and CW and on 2-meter FM. His major activity right now is administering the Amateur Radio Club at the Academy.



## Scholarship Winners



**Daniel C. Lawry, KA1PNE - Claremont, NH**  
**10-10 International Net Scholarship - \$750**

Daniel has completed two years as an Honor student at Clarkson University where he is studying Electrical Engineering with a minor in Electronics/Communications. He would like to design and analyze, electronic circuitry, and hopes he might work on government contracted systems. He holds Extra Class license and enjoys experimenting with new facets of Amateur Radio. He particularly enjoys QRP-CW operation and building QRP transmitters. Two uncles and his grandfather are also licensed. He has held several radio club offices and participates as a Volunteer Examiner.

**Nancy Polen, KB2IAK - Parsippany, NJ**  
**Young Ladies' Radio League Scholarship - \$1200**

Nancy is in her third year at Grove City College, Grove City, Pennsylvania. She is majoring in Biology with a minor in secondary education and looks forward to encouraging students to explore the sciences and take responsibility for shaping the future of the world. She hopes to promote Amateur Radio clubs in the schools where she may be teaching. She is also extremely interested in doing scientific research in remote areas of the world. She holds Technician Class license and is active on 10-meters SSB and 2-meters FM. She loves DX and being able to talk to people from all over the world. Her father is W2WCF.

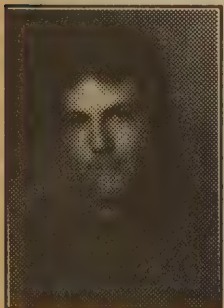


**Jerry A. Hensley, N8HUT - New Paris, OH**  
**QCWA Memorial Scholarship - \$750**

"Jay" plans to major in Rehabilitation and Social Work at Wright State University, Dayton, Ohio. It is his goal to become a counselor at an organization that works with the handicapped and eventually to start his own rehabilitation facility and/or organization. Although he is legally blind, he has maintained high academic achievements and is involved in several areas of community and extra-curricular activities. He holds General Class license and operates primarily on 10-meter, mostly on CW but some phone. He enjoys most the public service activities. His mother is KA8YSF, father is KA8YSE and sister is KA8YTO.

**Philicia Tillson, N7PRH - Chiloquin, OR**  
**Young Ladies' Radio League Scholarship - \$1200**

Philicia is in her second year toward a B.S. in Nursing at the Oregon Institute of Technology, Klamath Falls, Oregon. She has always been interested in physiology and medicine, especially the aspects of neonatology and pediatrics. She wants to work with children to help them have a better life. She holds Technician Class license and is working toward General. She is very active on the local 2-meters repeaters and does some operating on 10-meters. Five other members of her immediate family are licensed. Her father is NB7NEQ, mother is N7ORH, sister is N7ORI and brothers are N7ORG and KB7GZG.



**Scott W. Petty, KA3QLF - Dalton, PA**  
**Edwin S. Van Deusen Memorial Scholarship - \$700**  
**Funded by the Foundation For Amateur Radio**

Scott is studying for an Associate degree at the Johnson Technical Institute, Scranton, Pennsylvania. He is majoring in Electronics Fluidic Technology. He is interested in computers and radio technology and repair and hopes to own his own computer repair business. He holds Advanced Class license and operates all HF bands CW and SSB and 2-meter FM. He is an extremely active DXer and enjoys Field Day activities. He has been his club's Field Day chairman for the past two years. His father is NX3Y, and mother is N3ASU.



## Scholarship Winners

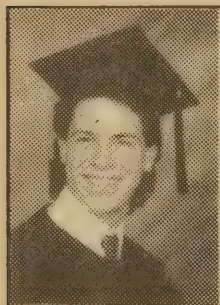


**Hong Ly Meng, KA3UGN - Philadelphia, PA**  
**DVRA Scholarship - \$500**  
**Sponsored by Delaware Valley Radio Assn.**

Meng completed his first year at Rensselaer Polytechnic Institute with a Grade Point Average of 4.0. He is majoring in Physics and hopes to teach and/or conduct research at a university. Born in Cambodia, he was snatched from his mother at the age of 10 and forced into labor. Eventually reunited with his family, they moved from country to country until finally reaching America. He was introduced to Amateur Radio by his high school physics teacher two years ago. He holds Technician Class license and is active on 10-meters.

**Melissa L. Benish, N3FAC - Pittston, PA**  
**Rose Ellen Bills Memorial Scholarship - \$2,000**

Melissa is in her second year at Pennsylvania State University, University Park, Pennsylvania. She is majoring in Aerospace Engineering and plans to seek employment in the aerospace industry researching and developing aircraft, manned and unmanned space system, and rocket engines. Her dream is to eventually work on the space shuttle or on developing the NASA Space Station. Her father is K3SAE, mother is KB3GB, sister is KE3J and Brother is N3CXB. She holds General Class license and operates the high bands, enjoys contesting and public service communications. She has a packet station in her dorm room.



**Evan Caplan, KA3NED - Richboro, PA**  
**QCWA Memorial Scholarship - \$750**

Evan has been selected for the Honor's program at the University of Delaware. He will be in the College of Arts and Sciences. He is considering a career in teaching communications. He was first licensed at the age of 11 and immediately became an avid DXer (following in his father's footsteps.) He advanced to General Class a year later. He is active on 10-, 15- and 20-meters CW and SSB and 2-meters FM and Packet. He particularly enjoys DXing and contesting and is a member of the prestigious Frankford Radio Club. He also does some rag chewing. His father is N3EC and mother is WB3AKT.

**Robert M. Popella, KA3HIE - Tidioute, PA**  
**QCWA Leo Meyerson Family Living Scholarship - \$750**

Robert is in his third year at the Clarion University of Pennsylvania, majoring in Secondary Education - Social Studies. He feels it is important for our youth to comprehend and appreciate the skills and aspects of world cultures. He is also very active in sports and is interested in coaching or playing professional hockey or baseball. He holds Extra Class license and operates all bands - 100% CW. He can copy around 60 wpm in his head "which comes in handy working DX." He also enjoys contesting and ragchewing. His father is WA3CXW, mother is KR3L, brother is KS3V, and grandfather is W3EBJ.



**Jennifer Doerrie, KA5WMJ - Booker, TX**  
**Amateur Radio News Service Scholarship - \$600**

Jennifer is a repeat winner of the ARNS scholarship. She is in her second year in Journalism at Angelo State University at San Angelo, Texas. She believes that communication between people is a key to solving international conflicts and she would like to travel and share her experiences with people throughout the world in order that we might come to better understand each other. She holds General Class license and is active primarily on 2-meter phone and some 40-meters. Her father is K5IS, sister is KB5DAK and her stepmother is awaiting her call. She was also winner of one of the Dayton ARC scholarships this year.



## Scholarship Winners

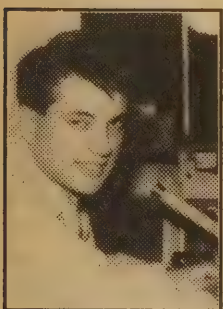


**William T. Baggett, AA5DF - New Braunfels, TX**  
**Radio Club of America Scholarship - \$750**  
**In Memory of Jack Poppele**

William is in his sophomore year at New Mexico State University, Las Cruces, New Mexico. He is majoring in Electrical Engineering with a minor in Economics and Management. He intends to work in digital communications and digital signal processing. He believes the field is continually moving the boundaries of technology and he hopes to become part of a high-tech project of great significance. He holds Extra Class license and is particularly active on packet. He also operates 2-meter FM and SSB and FM on 10- through 80-meters.

**Chadd M. Rolland, N1DER - Montpelier, VT**  
**Edmund B. Redington Memorial Scholarship - \$500**  
**Funded by Foundation For Amateur Radio**

Chadd is studying Electrical Engineering at the Rochester Institute of Technology, Rochester, NY, following two years at the Vermont Technical College. He feels electrical engineering will always provide challenging new mysteries. He hopes to teach science and use his education to bring people into better relationships through communications. He is also interested in renewable energy solutions. He is a member of the National Ski Patrol Society, a volunteer EMT and ARC lifeguard. He holds Extra Class license. His brother is KA1LFB



**Jerry A. Hart, N7FYS - Bellingham, WA**  
**QCWA Memorial Scholarship - \$750**

Jerry is in his senior year at Massachusetts Institute of Technology, Cambridge, Massachusetts. He is carrying double majors in architecture and mechanical engineering. He wants to combine engineering and design to provide better houses and building where people live and work. He is already working with his brother to start their own engineering firm. He holds Extra Class license and is active on 80- and 40-meters SSB and CW. His father is N7FYU and brother is N7FTY. Jerry was the only Amateur in his high school of 1200 students and he is committed to involving more young people in Amateur Radio.

**Ross Lepiane, WG7I - Walla Walla, WA**  
**Radio Club of America Scholarship - \$500**  
**From the Leo Meyerson Scholarship Fund**

Ross is in his junior year of Electrical Engineering at Walla Walla College, Walla Walla, Washington. He hopes to become involved in computer design. He holds an Extra Class license and operates on VHF packet, 10-meter and 40-meter SSB and 2-meter FM. Because of the demands of school he has not been able to be as active as he would like. He particularly enjoys packet since it utilizes both radio and computers. He is an ARRL Volunteer Examiner and has given a Novice training class. His father is N7JGG and sister is N7KAJ.

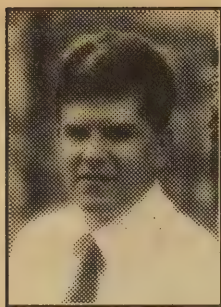


**Robert J. Goemans, N9HAD - Madison, WI**  
**WARAC Memorial Scholarship - \$500**  
**Sponsored by West Allis Radio Amateur Club**

Robert is entering the University of Wisconsin. At the present time he is undecided about his majors. He is interested in electrical or computer engineering, physics, and mathematics. He enjoys logical and experimental-type research and is considering teaching as his career. He got his Novice license at age 11 and now holds General Class license. He is active on 2-meter FM and packet, some HF SSB and CW and occasional 6-meter SSB. His father is WA9PWP, mother is N9AWW and brother is KA9RMG.



## Scholarship Winners



**Steven D. Kraft, KE9RW - Menomonie, WI**

**South Milwaukee Amateur Radio Club Scholarship - \$500**

Steven is entering Gustavus Adolphus College, St. Peter, Minnesota as a freshman. He will major in Physics with a minor in Computers. He plans to pursue a Master's degree in Electrical Engineering and feels physics provides a broad background for graduate work. The rapid advances in technology make the number of new opportunities very high. He holds Advanced Class license and is active mostly on 10- and 20-meters, RTTY on 20-meters, and FM and packet on 2-meters. He is a SKYWARN observer and has a long list of extra curricular activities and scholastic and civic awards. His mother is KF9CU.

**Gregory Overkamp, N9LMQ - Middleton, WI**

**South Milwaukee Amateur Radio Club Scholarship - \$500**

Gregory is in his senior year at the University of Wisconsin, Madison, Wisconsin. He is majoring in Electrical Engineering. He is interested in design engineering in the field of medical electronics and perhaps moving into engineering management. He enjoys the challenges offered by an engineering environment. He holds a General Class license and is active on 80- and 40-meters CW and 2-meter FM and packet. He is most interested in the applications for digital communications systems and digital signal processing. He dropped out of school for a year to pursue full time employment and is now back to full time school.



**David C. Wright, WB9VOZ - Milwaukee, WI**

**WARAC Memorial Scholarship - \$500**

**Sponsored by West Allis Radio Amateur Club**

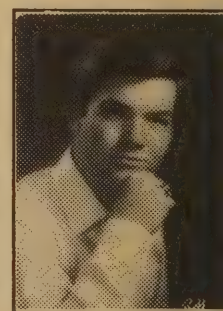
David is in his senior year of Electrical Engineering Technology at the Milwaukee School of Engineering, Milwaukee, Wisconsin. He holds an Associate Degree in Electronics from Northcentral Technical College. First licensed at the age of 13, he began an 8 year career in radio broadcasting at the age of 18. He now wants to get more involved in the technical side of radio. He holds General Class license and enjoys CW, DX, and some contests but is limited to 2-meter operation now because of lease restrictions. His father was WD9BKS.

**Martin Van Der Burgt, KA9MSR - Milwaukee, WI**

**WARAC Memorial Scholarship - \$500**

**Sponsored by West Allis Radio Amateur Club**

Martin is in his senior year at Marquette University, Milwaukee, Wisconsin. He is majoring in Electrical Engineering with a minor in Business. He is currently involved with the power distribution industry and would like to continue in this line of work. There is much to be done to more efficiently control and distribute power and counter the increasing demands of our society. He was exposed to Amateur Radio at an early age by his father, K9DHR, and now holds Extra Class license. He is active of VHF packet and voice, and HF CW and SSB.



These scholarships were open to all Radio Amateurs meeting the specified qualifications and residence requirements of the various sponsors. Announcements for the 1992 scholarships will appear in the March or April issue of the Auto-Call and in the major Amateur Radio publications. Watch for the announcements and help us reach deserving Amateurs who can benefit from the program. For additional information on the scholarship program, see page 31.

The mailing address for the Foundation For Amateur Radio Scholarship Program is:  
6903 Rhode Island Avenue  
College Park Maryland 20740



## Scholarship Program

Scholarships administered by the Foundation For Amateur Radio are available to any licensed Amateur meeting the qualifications and/or residence requirements of the various sponsors. Applicants are considered for all of the scholarships for which they are qualified. Applicants must be presently enrolled or have been accepted for enrollment in an accredited university, college or technical school to pursue a full-time course of studies. In addition, several of the awards require endorsement by a member of an organization (such as QCWA or 10-10). Full details of scholarship requirement and regulations are available from the Foundation.

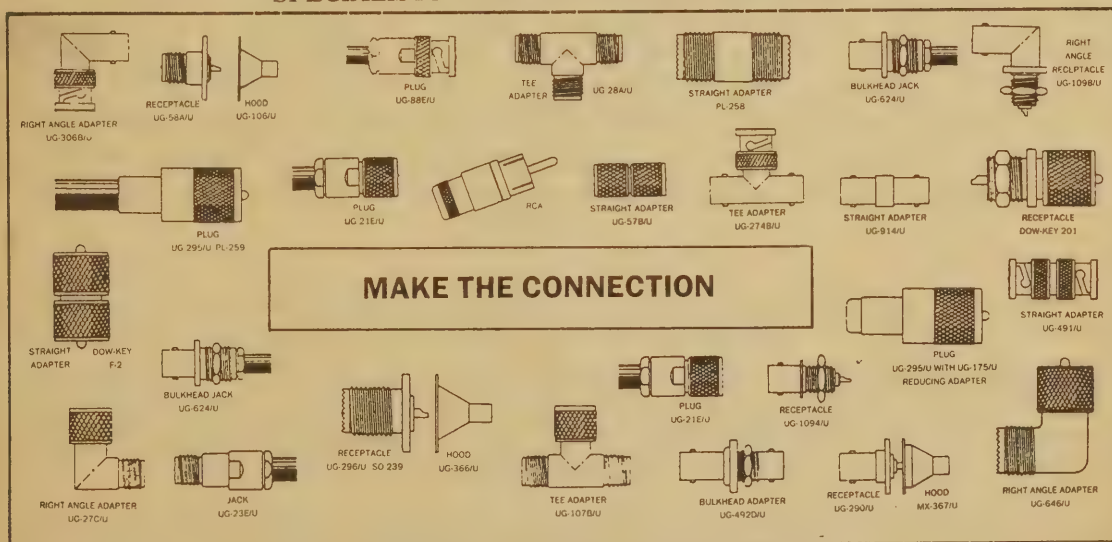
Four of this year's scholarships were fully funded by the Foundation for Amateur Radio and six more were funded by Foundation member clubs in the Washington, DC area. Other scholarships are funded by various organizations or individuals throughout the country and are administered by the Foundation without cost. The amounts of the awards vary from \$500 to \$2000. Please help us seek out deserving Amateurs who might benefit from this program.

The cost of college tuition has increased dramatically in the past few years and the need for larger scholarship awards is apparent. Contributions to the general scholarship fund - in any amount, large or small - are encouraged to help us continue this most worthwhile effort. Several donations in memory of Silent Keys are received each year.

The Foundation For Amateur Radio is a non-profit 501(C)(3) organization devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service. Contributions to the scholarship program are usually tax deductible.

## The R.F. Connection

"SPECIALISTS IN RF CONNECTORS AND COAX"



### The R.F. Connection

213 N. Frederick Ave., Suite 11, Gaithersburg, MD. 20877  
301-840-5477

✓280



## Elmer's Corner

*We would like to follow up on some of the suggestions made by N3FRT with regard to providing information and assistance to our new hams. (See October Editorial).*

*We would like to make this a regular column. There are many things that can be done and we certainly have the expertise in this area. Please send us short articles, along the lines of the items shown below, on anything you think might be helpful to a new ham. What kind of equipment is desirable, what kind of an antenna do they need and how do they put them up in restricted space. Remember all the questions you had when you started? Lets' answer some of them in Auto-Call.*

---

### The Yellow Brick Road to Morse Code Proficiency

Chuck Hite - W3SOG

To a beginner, the Morse Code seems like a formidable mountain to be climbed. Just remember you didn't start running at marathon speed the moment you were born, and you must "get on your feet" first to learn the code. Here are some secrets for success.

Memorize the letters, numbers and punctuation groups BY SOUND ONLY. Have a friend send them to you by telegraph key and an audio oscillator or, if that isn't possible, have the person "talk" the characters, using "dit dar" language. Using "dars" instead of the traditional "dahs" will give you a better sense of the rhythm of the characters. That rhythm is the big secret. Use a character speed of about 20 wpm - with plenty of space between characters to begin with - and concentrate on recognizing the rhythm rather than the dots and dashes. As you become more familiar with the characters you simply cut down on the spacing between the characters and you will find yourself copying at 20 wpm. Watch for the spacing between words and you will find it very easy to copy code in your head. Also watch that spacing between words when you send. You can't expect the other fellow to copy you when whatyouaresendinglookslkethis!

DON'T COUNT the dots and dashes and DON'T try to learn by looking at a printed page. You will simply have to translate sight memory into sound. Start out with the sound to begin with and save yourself a lot of time and effort. Learn to recognize word groups frequently used in conversation. Many people have achieved copy rates of 60 or more wpm simply by doing this.

You may find one more problem in becoming familiar with the abbreviations used on the air. Operators use abbreviations for words and even sentences to speed conversation. A list of the most commonly used and accepted ones is shown in the OPERATING MANUAL published by ARRL. Knowledge of the most common ones is useful, but be considerate about using abbreviations unnecessarily when you are working operators who may not be familiar with them.

Once you have developed a little bit of proficiency you will find CW can be a very enjoyable and useful experience. May these tips help you master it quickly.

✻ ✻ ✻

Scott Schaefer - WR4S comments on the tendency of new operators to use too much audio gain on their transmitters. This is particularly true if you have some of the newer equipment with a speech processor. One of the best things you can do with a new radio is to get on the air with somebody who knows your voice and have him/her check while you transmit with and without the speech processor and determine the level where your audio goes into distortion. Note that point and always run a little bit **under** that level.

Many radios have the facility to monitor your transmitted audio through headphones. Check your instruction manual. If you think you need more audio, check it out yourself by operating into a dummy load. With proper audio gain you will get a much better signal - and a lot less "splatter" on the band.

Send us your questions and your hints. We think this can be a valuable column.



The Goddard and Tri-County  
Amateur Radio Clubs  
proudly present:



# HOLIDAYFEST 91

Ham Radio and Computer Fair  
to benefit the Prince George's County RACES/ARES, INC.

## December 8, 1991

Donation  
\$4.00

Unlicensed Spouses  
& Children under 12  
are FREE

Hard  
Surface  
Tailgating  
(weather permitting)  
\$5.00

FREE AMATEUR  
EXAMS  
WILL BE GIVEN  
BY LARC VEC's

8:00 AM - 4:00 PM

at the Prince George's  
Community College Campus  
Largo, Maryland

(EXIT 17A OR 15A) CAPITAL BELTWAY

SPECIAL CW SPEED CHALLENGE CONTEST

SYMPOSIUM PRESENTATIONS:

\*SKYWARN\* \*ANTENNAS\* \*ARRL\* \*AMSAT\*  
\*EMERGENCY PREPAREDNESS\*  
\*HOW TO GET INTO AMATEUR RADIO\*  
AND MORE

TABLES:

\$18.00  
NOW til Nov. 23rd

\$22.00  
Nov. 24th - at door  
(if available)

Each table includes  
one PAID Donation

Plenty of FREE  
HARD SURFACE  
PARKING

TALK-IN: 147.180+, 145.73 SIMPLEX, 146.835-, 444.65+

Commerical Vendors must have proper Sales Tax/License Certificates available

THE PERFECT PLACE TO FIND  
  
YOUR HAM & COMPUTER  
  
HOLIDAY GIFTS  
  
AT SPECIAL SHOW PRICES

FULL  
FOOD MENU

PROVIDED  
AT OPENING

CONTINUING  
THROUGH  
LUNCH

RESERVE YOUR TABLES EARLY

TRI-CO/GODDARD HOLIDAYFEST  
360 DOMER AVE  
MAIL-DROP 120  
LAUREL, MD 20707

301-572-2326



# ANNOUNCING THE VIENNA WIRELESS SOCIETY WINTERFEST™ 1992

FOOD SERVICE

RAIN SNOW OR SHINE  
SUNDAY, FEBRUARY 23rd  
7:30 AM

SNACKS—DRINKS

AT THE  
VIENNA COMMUNITY CENTER  
120 Cherry Street  
Vienna, VA

**GENERAL ADMISSION**

\$5.00 PER TICKET

XYL, UNDER 12 FREE

ALL YOUTH IN UNIFORM ADMITTED FREE

**VEC EXAM 9 AM  
SATURDAY**

**FROSTBITE  
TAILGATING**

\$10 PER SPACE • OPEN 6 AM  
FIRST COME • FIRST SERVED

**SHUTTLE BUS FROM  
VIENNA METRO KISS & RIDE**

7:30 AM–2:30 PM

**TALK IN K4HTA/R**

146.085in	146.685out
146.190in	146.790out



**USUAL AMENITIES      DRAWINGS EVERY HOUR      9–3**

FOR INFO . . . NANCY DRAHEIM NK4U (703) 691-0078

FOR TABLES CALL . . . HARRY KAKLIKIAN W4ACN (703) 978-4402

**AN ARRL SANCTIONED HAMFEST**



# SRAM - 035

## (Soviet Radio Amateur Movement)

Edited by Dexter Anderson, W4KM

[ Summary translations from monthly magazine **RADIO** and weekly newspaper **SOVETSKIY PATRIOT** ("SP"). Most amateur news in "SP" appears in the column **"NLD"** (**Na lyubitel'skikh diapazonakh - On the Amateur Bands**), appearing in every issue, and in **"EFIR"** (**"AIRWAVES"**) (literally **"ETHER"**), appearing monthly. Both columns are edited by Boris Grigor'yevich Stepanov, UW3AX. The sequential number and the "signed-to-press" date are cited to identify each issue of "SP" uniquely. Text in square brackets and footnotes is by translator. ]

**RADIO #04 (April) 1991 [Received 13 August 1991]:**

### "RADIOAMATEURS CONQUER SPACE."

Early this year, two regular satellites in the "Kosmos" series were launched. On board, besides professional equipment, were amateur radio communication units. One unit was built jointly by radio amateurs of the USSR (AMSAT-U, the "Orbita" and "Sputnik" groups) and Germany (AMSAT-DL, the "Rudak-2" group). This is the first international project in which Soviet amateur satellite communication enthusiasts have participated.

"Kosmos-2123" was placed in orbit by a "Radio-M"-system satellite. On board the satellite were two BRTK-10 units built in the Volunteer Space Equipment Laboratory Attached to the State Museum of the History of Cosmonautics Named After K. E. Tsiolkovskiy in Kaluga by Aleksandr Pavlovich Papkov [UA3XBU], and Viktor Mikhaylovich Samkov [RA3XAM].

The new units are switched on on an alternating basis. They translate signals using the same modes as the earlier ones. Their callsigns are RS12 and RS13. The frequencies have been shifted. The frequencies of the linear retranslators, beacons, and "Robot" automatic answerers are shown in the table. The information transmitted by the beacons is interchangeable. For example, the callsign, telemetry data, and information from the "bulletin board" are transmitted on one beacon, while calls to and answers from the "Robot" are transmitted on the second. On command from Earth, these information flows change places, and what was transmitted on the first beacon is transmitted on the second.

Mode	Radio Channel	Frequency (kHz)	
		RS12	RS13
A	Earth - Space	145910±5..145950±5	145960±5..146000-5
	Space - Earth	29410±5...29450±5	29460±5...29500±5
	Beacon	29408 (29454.3)	29458.1 (29504.3)
K	Earth - Space	21210±5...21250±5	21260±5...21300±5
	Space - Earth	29410±5...29450±5	29460±5...29500±5
	Beacon	29408 (29454.3)	29458.1 (29504.3)
T	Earth - Space	21210±5...21250±5	21260±5...21300±5
	Space - Earth	145910±5..145950±5	145960±5..146000-5
	Beacon	145912.4 (145958.6)	145862.2 (145908.3)
KT	Earth - Space	21210±5...21250±5	21260±5...21300±5
	Space - Earth	29410±5...29450±5	29460±5...29500±5
	Beacons	145910±5..145950±5	145960±5..146000-5
		29408 (29454.3)	29458.1 (29504.3)
		145912.4 (145958.6)	145862.2 (145908.3)

(Continued)



# SRAM - 035 - Continued

## "ROBOT" AUTOMATIC ANSWERER

Mode	Radio Channel	Frequency (kHz)	
		RS12	RS13
K, T, KT	Earth - Space	21129.0	21138.8
A	Earth - Space	145830.8	145840.3
A, K, KT	Space - Earth	29454.3	29504.3
T, KT	Down	145958.6	145908.3

SOVETSKIY PATRIOT #31, signed to press 30 July 1991, NLD-1502:

Until 3 August, in connection with the Fourth National Games in Olympic Forms of Sport, 10 stations with the prefix LY91 and single-letter suffixes will be active from Lithuania. Apply for memorial pennant to P. O. Box 71, 235400 ŠIAULIAI, Lithuania. From LY2PAJ.

Until 10 August, the following stations will be active from the island of Berezan' in the Black Sea: RYØZ/UB5BAX (QSL to P. O. Box 28, 282001 TERNOPOL') and RY3Z/UB5BCP (QSL to P. O. Box 195, 282023 TERNOPOL'). From UB5BCP.

SOVETSKIY PATRIOT #32, signed to press 6 August 1991, NLD-1502 (a):

QSL cards for RAØX/UV3DA (still operating but soon going QRT) and UA9G/UV3DA (active in 1989) may be sent to P. O. Box 8, 142491 SETTLEMENT SVETLYY (Moskovskaya Oblast'). From UZ3DJ.

QSL cards for JT1SU (24 - 28 May 1991) go to UA4WA at P. O. Box 1370, 426000 IZHEVSK.

QSL cards for R145B go to P. O. Box 100, 702500 ANGREN (Uzbekistan). From RI8BER.

SOVETSKIY PATRIOT #33, signed to press 13 August 1991, NLD-1503:

To receive the "50 Years of PQ Polar Convoys" diploma, you need, during the period 15 August through 15 September 1991 (UT), to make 100 contacts (for collective stations 300) with at least four of the five countries (USA, Great Britain, Canada, Australia, and the USSR) that took part in the polar convoys. At least three contacts with each of these countries are required. At least two contacts are also required with jubilee stations that will be active during this period (ER5ØPQ - Moscow, EN5ØPQ - Murmansk, EO5ØPQ - Arkhangel'sk, EZ5ØPQ - Vladivostok, GB5ØRS, and GB5ØCON/MM.) U1PR and U9PE count as jubilee stations. ... The procedure for obtaining the diploma will be reported later.

SOVETSKIY PATRIOT ##34-35, signed to press 20<sup>1</sup> August 1991, EFIR-01<sup>2</sup>:

[INTRODUCTION] In response to numerous requests from readers, the "EFIR" CLUB column will again appear in our newspaper on a monthly basis. We'll try to fill it with practical information on amateur communications and equipment. We await your letters with suggestions and comments.

-----  
<sup>1</sup>Two curious details concerning this issue suggest the possibility -- and this is pure speculation on my part -- that publication of SOVETSKIY PATRIOT was delayed following 19 August 1991, the day of the attempted coup, conceivably to permit the editors to see how events would turn out before they put their views in print. First, the signed-to-press date for this issue, 20 August 1991, is obviously wrong: Gorbachev's statement of 22 August 1991, made after his return to Moscow following the collapse of the coup, is carried in this issue. Second, the issue bears a double number, ##34-35, presumably indicating that one issue did not appear at all. The missing issue may be the one that would have appeared immediately following the coup attempt.

<sup>2</sup>"EFIR" is a continuation of a column of the same name that appeared until 24 June 1987, when it was discontinued with the explanation that since restrictions to subscribing to RADIO magazine had been removed, there was no longer a need to repeat materials appearing in the magazine.



## SRAM - 035 - Continued

### COSMONAUTS AND SCHOOLCHILDREN

Our country's undoubted lead in amateur radio operation from space does not significantly affect the development of amateur radio in the USSR. The reasons are simple: Our poverty and our natural inclination not to permit anything. Both American astronauts and our cosmonauts use the most appropriate band and modulation mode for such communications -- 2-meter FM. But 2-meter FM operation is in a rudimentary state here, due to problems of availability of equipment and the prohibition syndrome [sindrom zapretitel'stva] alluded to above. Throughout the world, the ability to operate while walking or riding has spurred development of VHF FM communication. In the final analysis, the equipment problem could be resolved if mobile communications were legal.

The silliest situation has come about. Any USSR citizen can go all over the country with a [CB-type] radio with which he can work, given the vagueries of propagation, the whole world. But the radioamateur shortwaver, who has passed special examinations and has undergone a full KGB check, doesn't have such a right. How can the State Telecommunication Inspectorate of the USSR explain such a paradox?

In October 1991, an Austrian cosmonaut is to arrive -- his callsign will be OEØMIR. The Österreichischer Versuchssenderverband made him a transceiver and a speech synthesizer for use as a beacon giving greetings from space in four languages. A technical college near Vienna designed a simple VHF FM receiver and prepared kits for these receivers to be given to Austrian schools so that schoolchildren can hear the voice of their compatriot from space.

Yet we, who have had the theoretical possibility of doing this at any time beginning in November 1988<sup>3</sup>, allow this marvelous opportunity to pass by.

The Austrian radio amateurs didn't forget about our difficulties with equipment. Within the framework of the AREMIR project -- Austrian radioamateur experiment with the "Mir" station, several tens of kits for the VHF FM receiver, with which one can receive signals from the "Mir" complex both on the service channel and on the amateur 2-meter band, have been provided. ...

SOVETSKIY PATRIOT ##34-35, signed to press 20 August 1991, NLD-1504:

The expedition "Russian America" is continuing. By the time you receive this, the expedition stations will be operating from Alaska, from on board the vessels "Academician Korolev" and "Academician Shirshov," as well as from on board a TU-154 aircraft flying along the route Magadan - Anchorage - Seattle. The callsign will be EK25ØPA followed by /4K4, /KL7, /MM, /AM, /AØX, /UAØZ, and /UAØK. It is possible that at the end of August and in September the expedition stations will operate from Ptichiy, Starkovak, and Kosa-Meechkyn islands. A memorial pin will be issued for working one of them. Send a QSL card, an SASE, and postage stamps worth 2 rubles, to UA9OBA, P. O. Box 1, 630092 NOVOSIBIRSK-92. From UA9OBA.

SOVETSKIY PATRIOT #36, signed to press 3 September 1991, NLD-1505:

QSL cards for 4K4A/A (Dikson Island, IOTA AS-05) and 4K4I (Islands of Izvestiya of the Central Executive Committee, IOTA AS-86) should be sent to [Georgiy Chliyants,] UY5XE, P. O. Box 19, 290000 L'VOV. From UY5XE.

SOVETSKIY PATRIOT #37, signed to press 10 September 1991, NLD-1506:

From 14 through 20 September 1991, the EZØZ DXpedition will operate from the KOMANDORSKIYE Islands (IOTA AS-39).<sup>4</sup> QSL to Georiy Chliyants, UY5XE, P.O. Box 19, 290000 L'VOV.

From 17 through 27 September 1991, U1N/UZ3YWA, U1N/UA3YFA and R1N/RA3YF will operate from the islands of the VALAAMSKIY Archipelago. QSL to P.O. Box 188, 241000 BRYANSK.

-----  
<sup>3</sup>When U1MIR, U2MIR, and U3MIR began operating from "Mir."

<sup>4</sup>Located east of the KAMCHATKA Peninsula in the Soviet Far East.



## President's Message

By Phil Russo - N3GDD

President, Foundation For Amateur Radio

Well we did it again. But this time in grand fashion, and it's time to put out a round of thank you's, so here we go. To Nancy Draheim - NK4U, who took over as the Chairperson under the most difficult of circumstances and managed to pull off the most successful hamfest in Foundation history. The sleepless nights and late phone calls paid off. Next, to Waid Laird WO3U, for the loan of his brain for background knowledge and advise on who's who. To the night shift on the south gate (names deleted for security reasons) and the north gate crew who managed to keep us on our toes (they kept running out of tickets). To the money handlers and probably most of all to all those who helped set up on Friday and Saturday. The Mildred's and Ed's and the Colonel's. These people are the volunteers that came out of the woodwork to help, asking nothing in return; the final figures that come out in January will show the worth of their work. Thank you one and all !

I would like to take a minute here to talk about another group of volunteers that also ask for nothing in return. The Goddard ARC regularly rebroadcasts the Shuttle missions and helps coordinate the SAREX missions. They can do this by special permission from the FCC to rebroadcast the Houston-Shuttle transmissions. However they are in desperate need of replacement of the cable (hard line) to the tower. The problem not only is sapping the power output but the range of coverage as well. 200 feet of hard line would get them back in business, but at \$3 /ft that's hard to swallow. Why can't we pitch in to help them out? I've been to their "shack" out there. What these people do with what they have is a tremendous effort on the part of all. They should be commended. Thanks to Chuck and Vikki and all the rest of the gang up there at Goddard ARC. I hope this helps.

Phil N3GDD

## Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

Meetings: Quarterly, on the second Sunday of the month.  
Time and place to be announced.  
Repeater: N3AGB/R, 52.250 MHz in; 53.250 MHz out.  
On-the-air: Saturdays at 1900 hours (Standard time).  
Mailing: Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903  
Information: Bob Sporn - WA3GGO (301) 434-1719

At the September meeting of the Executive Committee, a Nominating Committee was to be set up for the December annual election of officers. A series of constructive amendments to our Club's Constitution and By-laws have been suggested. According to the Constitution and By-laws these suggested amendments will be forwarded to the general membership in due time so that the amendments can be voted upon at the December 8th meeting. The list of candidates for the 1992 offices will also be forwarded at that time.

### THE SUNDAY MORNING COFFEE NET (50.4 MHz-AM) AT 0900 HOURS.

We are back on the air with our HA-460. One of the most regular check-ins, Stan Brigham - W3TFA, has contributed a lot to our discussions, both technical and of general interest. Stan pointed out that there has been an increase of 30,000 licenses issued following the establishment of a non-code license. Stan says that was the number of radio Amateurs throughout the entire world when he was licensed some 55 years ago. Stan Brigham already has earned DXCC for CW, ten meters and phone.

MARYLAND FREE STATE SIX METER SIDEBAND NET 40.125 MHz) SUNDAYS AT 1900 HOURS. This net has consistently maintained its schedule. Join us at any of the above nets.

Bob Sporn - WA3GGO



# Stafford Amateur Radio Association

Meetings:	Weekly, 0730 a.m. every Saturday morning. at the "Nothin Fancy" Cafe on Route 1. All meetings are informal.
Repeater:	N4SMP/R 145.27 out 144.67 in. Autopatch for members.
Mailing:	c/o George Gautney - N4SMP, 9 Skyview Ct., Stafford, VA 22554-5232
Information:	Dick Kirby - W4GFB (703) 720-0406 or George Gautney - N4SMP (703) 659-5720
Packet:	145.07, W4GFB-2

---

About that much misunderstood and maligned PL@ tone on the repeater . . . If you don't have a tone squelch on your radio, don't worry about it. You won't notice any change. If you have a tone squelch, you have a neat added feature. Here's what it does. Any signal received by the repeater (with or without a tone squelch) is repeated normally. The transmitter on the repeater simply adds a tone - 167.9. If you have a tone squelch, you can turn it on so you hear *only* our repeater. Since the tone isn't present on that Pennsylvania repeater that so often causes us problems, you won't hear it. But the bottom line is that this system won't keep anybody off the repeater, despite some dark suggestions heard on the repeater recently.

Will - K4ZSD invited all the gang down to his vineyard for a picnic he throws each year. Over a hundred showed this year, making parking a real challenge. In fact, the crowd was so good, we've heard reports that the "WV" twins - Watts, KC4WVM and Joe - KC4WVN - were tailgating at the picnic. And John - N4WRT, is reported to have set up a booth to collect parking fees! Maybe SARA can use next year's picnic to put itself solidly in the black!

Back to Watts - KC4WVM. Watts recently trundled into one of our breakfast meetings after having worked until 3:00 a.m., which still doesn't explain why he looks that way. Anyway, everybody jumped on him explaining that "for ID" isn't really needed after *every* identification, and that while it's always wise to use phonetics when giving an unusual name, "I²R" is not necessarily an appropriate way to spell "Watts". We could tell over the following week that our advice had been taken - at least partly. We're still working on "Nothing heard."

When Watts (yeah, we're still on him) heard he would be featured in the Auto-Call column, he rushed out to HRO to buy a copy to see whether he needed a lawyer or not. When K9MX arrived, Watts held up a copy of Auto-

Call and asked if that was the magazine. Not until after Watts plunked down the money for the magazine did Spike volunteer the information that the column he was looking for wouldn't be in until the next issue. Watts' support is much appreciated!

John - N4WRT, recently called CQ on his 2-meter HT and signed /MM while floating in K4KBA's pool. After the pile-up abated, John issued QSL instructions and invited callers over to join in the fun, which caused one especially officious - and offended - ham to insist (wrongly) that /MM was reserved for operations outside the continental US.

We also understand that KD4AOD is beginning to learn when to use his callsign (more frequently than daily), and that Joe - KC4WVN, mounted a radio in the headboard of his bed over the strenuous objections of his [very] new bride. We don't know if reports that he used it on his honeymoon to compete in the VHF contest are true or not.

And then there was Gaithersburg. First, Jim - N4PVC drove off before he realized that although his HT was in his car, the antenna it was connected to was on KB4OB's motorhome. When KB4OB finally left the hamfest, there were so many boat anchors in the back end that it porpoised going down the highway. Tim, KC4YDX - our resident submariner - had to struggle as the planesman to keep it on the highway.

Finally, and most importantly, we had lots of upgrades at the September SARA test session. James Thompson, Hernando Vera and Charles Hasenohrl are new Technicians. Gary Scott - N8BOR, Linda Becker - KD4EES, and William Dematteo - KD4EMT went from Technician to General. Upgrading to Advanced were Jay Hauger, from Technician, and John Wilkins - KC4SYX from General. We even landed two new Extras - Kelly Shaw and Dennis Catalano.

Spike, K9MX



# Herndon Repeater Group

Repeater 145.31 MHz

Meetings: On-the-air meetings on alternate Mondays at 9:00 p.m.  
Repeater: N4FXP/R 145.31/144.91 MHz  
Packet BBS: 145.09 MHz  
Mailing: Herndon Repeater Group, P.O. Box 5073, Herndon, VA 22070  
Training: Michael Weber - WB8RDN (703) 450-2304  
Information: Michael Rosati - N4FXP (703) 481-8380

The Herndon Repeater Group (HRG) Novice and Technician code and theory class is well underway and we are very pleased to have nearly 40 students enrolled. Our goal to have at least 25 students was certainly exceeded and we are very pleased with this outcome. Many students have told us that there was a definite need for such a course in the Western Fairfax/Eastern Loudoun County region and HRG is pleased to fill this void. Look for a new group of Novice and Technician Amateurs on the bands in the coming month. HRG is looking into running a Novice/Tech course twice a year and is also planning a General class course (if there is enough interest) to assist those currently holding Technician class licenses to upgrade. HRG would like to especially thank Ken Nichols - KD3VK, Dick Hayman - K3DML and Steve Todd - K2IYQ, all of the Montgomery ARC for their invaluable assistance and guidance to HRG in setting up our ham classes. HRG has modeled our course after their successful program.

HRG again sponsored an ARRL/VEC Novice - Extra testing session on Saturday, October 12, at the Herndon High School. Results will be available in the next HRG column in Auto-Call. HRG plans to offer VEC exams each April and October in Herndon. Check the Auto-Call listing for details or call one of the phone numbers at the top of this column.

As many of you are aware, the HRG packet BBS has moved from Herndon to Manassas and can now be reached on 145.09 MHz via the OVH Manassas Node. To connect, look for the N4WJN BBS (could also be HRGBBS orBBSHRG). Also, N4WJN-5 will connect you to a Node running concurrent on the HRGBBS PC software. HRG wishes to thank the following members for their assistance in the relocation of the BBS equipment: John - KI4RO for running the BBS previous to its moving, and to Don - KD4CHU for technical

hardware assistance. For further packet information, contact Bill - N4WJN or any club member on the Herndon 145.31 MHz N4FXP/R repeater.

Join us for our on-the-air net meetings on alternate Monday evenings at 9:00 p.m. on the HRG repeater. The club also had a very successful turn-out at the F.A.R. FEST on September 8 with over \$100 being donated to the club through equipment sales in our Flea Market booth. The club continues to grow and now has a membership base of around 40 hams. If you are interested in joining HRG, please call Michael Rosati - N4FXP at the phone number listed above.

Finally, I would like to thank the following hams for assisting in the HRG Novice/Tech class on September 14: Terry - AB4UM for serving as the Morse code instructor for the class, Mike - N4FXP for assisting as a guest instructor, and Ruthie - N4QGT for administrative support. Without assistance like this from the ham community, it would be very hard to conduct such a class. Thanks to all.

Michael Weber - WB8RDN

## SERVICE

### While U Wait

 **commodore**

64/128/1541/1571 AMIGA 500

Authorized Service Center • In & Out Warranty  
10% discount on repair with this ad,

13646 Jeff Davis Hwy.  
Woodbridge, VA 22911  
491-6502 643-1170  
MWF 12 - 8 TT 10 - 5 Sat 10-4

Virginia  
Micro  
Systems



# Montgomery Amateur Radio Club

Meetings:	1st and 3rd Wednesdays of each month at 7:30 p.m. Executive Office Bldg. Montgomery Co. Government Center, 101 Monroe St., Rockville, MD. Park underground on G-2.
Repeater:	146.04 in (Rockville & Germantown)/146.64 out (Rockville)
Mailing:	M.A.R.C., P.O. Box 611, Gaithersburg, Maryland 20877-0611
Information:	Jeff Horlick - KZ3F (301)258-0112; Steve Todd - K2IYQ (301)253-4172
Training:	Ken Nichols - KD3VK(301)977-5405; Dick Hayman - K3DML (301)251-8721

---

As you might expect, this month's column is partially devoted to recapping the events of the Sept. 8 F.A.R. Fest held at the Montgomery County Fair Grounds in Gaithersburg, Md.

Starting with Talk-in at 6:00 a.m. and ending with Talk-out sometime past 3:00 p.m., M.A.R.C. provided hours of invaluable support to HamFest visitors, all of whom were attempting to negotiate their way in and out of the Fairgrounds. Given the ever-changing nature of I-270 and the C-D (Collector- Distributor a.k.a "local") Lanes, M.A.R.C. provided vital communications support-- no doubt saving F.A.R. Fest visitors hours of potential aggravation and missed exits...the whole crew is to be congratulated, starting with Stan - W3INK, and extending down to each person, primary and backup, who volunteered his or her time to work Talk-in (either on the .64 Repeater or .52 Simplex). Special appreciation goes to the 'Mystery M.A.R.C. Member' who generously donated (at the eleventh hour) a "Pop-up" Camper and also to Ray - N3HTB who ferreted out the M.A.R.C. Logo among souvenirs in his basement and affixed it to the side of the Camper. Thus, this larger-than-life 'Day-Glo-Yellow' logo served as a beacon to F.A.R. Fest visitors throughout the day....

By all accounts, overall feedback from the F.A.R. Fest has been extremely positive: the weather was delightful, the crowds were record-breaking, the tail-gaters stretched about as far as the eye could see. If there was a "negative" comment to be heard, it related to the often-heard proposal to extend the Fest to 2 full days, Saturday and Sunday. The thought process behind this recommendation is to set aside the first day for educational-related activities to publicize Amateur Radio. These might include seminars, demonstrations, VE exams, and so forth, all geared to piquing the curiosity of would-be Amateurs, as well as encouraging licensed hams to upgrade.

Following closely on the heels of the F.A.R. Fest was the September 15th City of Gaithersburg Celebration of 'Old Towne Day.' This 10th annual event was attended by approximately 60,000 visitors. For the 4th consecutive year, M.A.R.C. played a major role. Under the watchful eyes of Jeff - KZ3F and Alan - N3EHD, M.A.R.C. set up a center-stage exhibition tent, complete with packet radio demonstrations and two HF special event stations: one on 40 meters, the other on 20 meters, operated continuously by M.A.R.C. members. Space constraints prevent us from listing all the members who helped to make the Gaithersburg 'Old Towne Day' a roaring success, but the Club certainly did appreciate their work!

At M.A.R.C.'s next regularly scheduled meeting of 09/18, the Nominations Committee, chaired by Cary - NI2Q and assisted by Ken - KD3VK and Erinn - N3HSA solicited recommendations and nominations from the membership prior to Club elections in November to fill officership ranks in 1992. Stay tuned! By a show of hands, M.A.R.C. members decided to defer the 10/16 4th quarter social event meeting at Ernie's in favor of a Club Auction to be conducted the same evening at the work QTH of Tom - WB3DIO. Having participated in this riotous event last year, the Amateur Reporter has first-hand knowledge of the bargains to be had--including a lifetime supply of muffin fans....

As if this weren't enjoyment enough, on 9/18, the Club was treated also to a detailed technical presentation on "Yagi Antenna Design" by Al - NW2M. Using the research of NIST's Dr. Lawson on this subject, Al demonstrated the validity of Dr. Lawson's theories by performing a series of computer modeling exercises using a public domain antenna design software application program.

(Continued)



# Vienna Wireless Society

25 Years of Public Service

Meetings:	2nd and 4th Fridays of each month, 7:30 p.m. Vienna Community Center, 120 Cherry Street, Vienna, VA
Repeaters:	K4HTA/R 146.085 in/146.685 out 222.340 in/223.940 out, 448.250 in/443.250 out
Nets:	Every Thursday at 7:30 p.m. on 146.085 in and 146.685 out. Pow-Wow Net Every Night at 9:00 p.m. at 28.400 MHz
Information:	Pat Crosby, KA4FHK (703) 978-6316 (H); (301) 731-9800 (W)
Training Classes:	Paul Wilkins, AB4CY (703) 560-2779
Mailing Address:	P.O. Box 418, Vienna, VA 22183

Good news! Our new 440 repeater is up and operating on top of the Fair Oaks Hospital. By the time you read this, the final power amp and pre-amp should be in place, with the linking to our 2-meter repeater in Vienna not far behind. Thanks to a lot of good people under the leadership of Dickson Lum - NH6E with the help of Mike - KB4CVL, Dan - KC4OGC, Frank - W4NUA, Margey - N2JRG, Ross - N4YYH, Ron - WO2L, and Barney - WA4HIM. Thanks, also, to all the people who supported the project from the club. This is a project we can be proud to say is part of the Vienna Wireless Society.

Our regular meeting on the 8th of November is to be a scheduled SKYWARN training session. It will start at 7:00 p.m. at the Vienna Community Center, 120 Cherry Street, Vienna, VA. This meeting is open to all wishing to attend.

Our Fall Novice training classes are under way with 16 new prospective hams. Thanks to Paul Wilkins - AB4CY for his leadership and efforts in this training class. We wish them all success and passed exams. It is then up to us to see to their continued growth.

November 22 will be an important meeting for our club. It will be the yearly election for three members of the Board of Directors. We have been blessed for many, many years with excellent people who proudly served for their two terms. Ray Johnson - K5RJ is heading the committee to find the candidates that will run. Election will be by all members present at the November 22 meeting. We always have very close elections and this year is expected to be the same. The three new members and the two members returning to the Board will then elect the new president for 1992.

Patrick Crosby - KA4FHK  
President VWS

## Montgomery Amateur Radio Club - Continued

### Old Towne Day Participants

Dick - K3DML, John - KA3QFL, Rick - K3YNY, Jane - KA3YWU, Josh - N3KHU, Ken - KD3VK, Bob - N3JLN - Joe - (Awaiting Call), Tom - WB3DI0, Tom - N3ISV, Ray - N3HTB, Jamie - N3IDF, Larry - N3BE, Pierre - KB3ZM, Sal - WF3V, Ken - N3JBU, John - KA3USB, David N3GWL, Jeff - K3DUA, Erinn - N3HSA.

Every attempt has been made to include all those who participated in the success of Gaithersburg 'Old Towne Day.' However, if you think we missed YOU, please inform Jeff - KZ3F or your Amateur Reporter, Erinn - N3HSA and the error will be fixed... as a final note, we'd like to incorporate by reference, the names of two individuals who were there in spirit, namely, Steve - K2IYQ and Stan - W3INK. Both Steve and Stan were busy working on the much-improved Repeater and as such, were physically unable to attend 'Old Towne Day.'

Erinn - N3HSA



# NASA Goddard Radio Club

WA3NAN

Meetings:	3rd Wednesday of the month at 5:00 p.m. Goddard Radio Club Station, Soil Conservation Road, Greenbelt Maryland, across from the Soil Conservation Road gate of the Goddard Space Flight Center. This road may be accessed from either Route 193, Greenbelt Road, or Powder Mill Road.
Repeater:	146.835 MHz
Net:	Information net every Wednesday evening at 8:00 p.m. local time. All Amateur Radio operators are welcomed. Net time and date may be changed to Monday at 9:00 p.m. local time. <b>Watch this space for an announcement.</b>
Mailing:	WA3NAN, Goddard Amateur Radio Club, P.O. Box 86, Greenbelt, MD 20768
Information:	Chuck Sommer - N4OSD (301) 794-3280; Vikki Gigante - KA3PVS 249-2609
Training:	John Hueber - KA3PVM (301) 286-2481

---

It has been an interesting and active month for the Goddard Radio Club. First of all, there was a five day shuttle mission, which was completely covered due to the assistance of our volunteer operators. These guys and gals are the greatest.

I mentioned last month that I would let you know about some of our shuttle retransmission volunteer operators. Space does not permit naming them all, but they know who they are and our thanks goes out to each and every one of them. Joe Grzesik - KU3Z is our fill-in person. If there is a spot that needs to be filled in, no matter if it is the one at six in the morning, he's there on a moment's notice. He also provides the club with fresh WSSC water (no fish) for each one. This last mission, even though it was only five days, was an interesting one because it ran from 4:00 p.m. to 6:30 a.m. or thereabouts. Tony Young - WA3YLO came at a moment's notice to cover a late afternoon shift. Marlin Heckendorn - WA3HEM is a teacher at Damascus Elementary School. He and his buddy, the notorious Jim Dove - K3HAE frequently drive all the way down from Damascus to sit a shift, and Marlin pulled two long hauls from opening until midnight during this mission. Al Nollmeyer - W3YVQ not only sits those strange until 5:30 in the morning shifts, but recruits others to help out, too. Carolyn Keydash - N3DON and our newly licensed Pat Gossard - N3KGY pulled an all-nighter and had a ball. It is the devotion of people like these, and many others: Dave Gossard - N3DRL, going over to the club to finish out the night after working four to mid-night at his regular job; Jeff Nucciarone - N2BSS and Bill Graettinger - W3IUI fixing a

piece of equipment the moment it breaks down so we are not off the air. Dean Charlson - WB2DCF and Matt Kirichok - N1FXH are our notorious thunderstorm team, as is Jim Gass - N3CJN. If it is going to storm, it will do it on their shifts - but they are very well equipped to handle it, go to local and count the ground strokes until the storm passes, and then it is back on the air, business as usual. Bill Boston - N3DCI fills in whenever I am in a bind, and Doug Megenity, Margie Patterson, Mike Gallaher, and Ron Natalie drive over from Virginia to do either a weekend shift or a mid-afternoon one! One of our newest operators, Bill Count - NN3O and Henry Herman - W3UJ, one of our most experienced ones, always calls me before a mission to see when they can work. I appreciate that more than they know. These are just some of the dedicated volunteer operators that keep the shuttle retransmission effort alive. Thanks, as well, to all those I forgot to mention.

Speaking of shuttle missions -- our next one is currently scheduled sometime in November and will be a ten day mission with a night time launch. We also recently got word that STS-45, scheduled for late March or early April, will be the next SAREX mission, with 20-meter voice only. Two of the astronauts recently got their technician licenses -- so get ready, SAREX will fly again!!!

The Goddard Public Affairs Office recently held its Community Day at Goddard and the club had nearly 400 people stop by to see what we and Amateur Radio are all about! Hopefully, we'll get some new Amateurs out of that group.

(Continued on page 44)



# Tri-County Amateur Radio Club

Meetings: Semi-annual business meetings, time and date announced on the air and in the club newsletter.  
Repeater: KA3LAO/R, 147.780 MHz in; 147.180 MHz out.  
On-the-air: Tuesdays at 1930 hours (Local time).  
Amateur Radio Newslines Tuesdays at 1915 hours (Local time).  
Mailing: P.O. Box 10592, Silver Spring, MD 20914

---

Tri-County ARC would like to invite all Amateur operators to join our weekly net on Tuesdays at 1930 hours local. Be sure to be listening at approximately 1915 hours for the Amateur Radio Newslines, an Amateur Radio news service from California. Newslines always has information of interest to the Amateur community.

After many weeks of labor by a number of club members, the autopatch was reconstructed and placed back on the air early in October. Unfortunately, at the end of October a nearby lightning strike inflicted some serious damage to the control circuits and took the repeater off the air for several days. When John - KA3LAO, our trustee, returned from his business trip he was rather surprised at mother nature's handicraft. Nevertheless, John salvaged the damaged parts and was able to get the repeater back on the air with basic capabilities quickly. John is very positive about the situation since he says it now gives him the opportunity to redo all those circuits he had been meaning to update for some time.

By the time this article is printed the repeater should be back in complete service, better than ever. Many thanks to those that have helped and the patience of the membership and the Amateur community.

Members are reminded that October is membership renewal month. Please make sure that you are updated for the next year.

Make sure to mark your calendars on December 8 to join the Goddard and Tri-County Amateur Radio Clubs for a new ham and computer fest, HOLIDAYFEST '91, to be held at the Prince George's Community College Campus, Largo, Maryland. This indoor event will feature a number of interesting speakers and displays, along with many commercial exhibits, Amateur exams, and lots of flea marketing. There is plenty of free hard surface parking and talk-in is on 147.180+, 146.835-, 145.73 simplex, and 444.65+. HOLIDAYFEST '91 is for the benefit of the Prince Georges County RACES/ARES, Inc. We hope to see all of you there.

Greg - WA3FSC

---

## Goddard Amateur Radio Club - Continued

Our open house was a success and attended by 40 people. Thanks to John Klim and Ron Guse for assisting Chuck and Vikki with the cooking. A big thank you to Frank Turano for bringing his antique radio equipment out to the open house -- it provided the "spark"le for the evening!

The club will be participating in the CQ Phone Sweepstakes on October 26 and 27 and the ARRL Voice and CW Sweepstakes in November. Come out and do a little contesting with us.

HAMFEST UPDATE: Moving right along, we have many vendors who have already reserved tables with us, many of them from out of town. The symposiums are shaping up nicely with ARES, AMSAT, packet radio and an antenna symposium, to name a few, are already committed. Rumor has it we may have a local weather man doing a symposium as well. That, coupled with the CW Contest at 2:00 p.m., the free VE exams provided by the Laurel Club and the YL's shipping service, should provide for an excellent hamfest. It will be at Prince George's Community College on Sunday, December 8 from 8:00 a.m. to 4:00 p.m. (See flyer on page 33). We are looking forward to seeing you there!

Vikki - KA3PVS



# Maryland Emergency Phone Net

Meetings: Every night, 3920 kHz, 1800 local time (All are welcome)  
Net Manager: George Korper, WD3W  
Secretary: Jim Mc Coy, N3EI  
Treasurer: Rino Masso, KC3ZJ  
Directors: W3LDD, KD3JK, WA3YLO, W3DQI (Alternate)  
FAR Representative: KC3ZJ

---

*The Maryland Emergency Phone Net (MEPN) is a club, a member of the National Traffic System (NTS), and meets every night on 3920 kHz at 1800L for the purposes of training operators in net procedures and traffic handling; to handle traffic for Maryland and the District of Columbia; and to establish communication links in these areas so that, in the event of an emergency requiring Amateur Radio communication assistance, the MEPN will be prepared to exercise these links until the emergency subsides.*

All Radio Amateurs are invited to participate in the Maryland Emergency Phone Net. Those wishing to join the club and receive the monthly bulletin and rollcall sheet should contact either WD3W or N3EI. Yearly dues are \$7.00. There are currently 64 members.

Sadly we report that Harold (Hal) Low - WA3WIY became a silent key last month. Hal was a steady check-in from/for the Delaware nets. He was a former SM for Delaware and truly a ham who will be missed on the East Coast. He shared Delaware duty to the MEPN with his wife, Laura V. (Ginny) - WB3DUG. We miss Hal, but are continuing to enjoy the nightly chats with Ginny.

Congratulations are in order to Tony - WA3YLO on being the newest director elected to the MEPN. He is replacing Pud - W3DQI who is

now the acting alternate director. Tony was a popular choice and was elected by acclamation.

The Gaithersburg meeting was an overwhelming success, with over 25 MEPNers in attendance. The main order of business was discussing the rewrite of the Constitution/By-laws. George - WD3W and Al - W3YVQ are preparing the proper ballot information and hope to have it ready for the November bulletin. This is an important update to the 1958 Constitution/By-laws (plus amendments), and will include the several emergency operating plans which have been discussed recently. Stay tuned!

**BULLETS:** THIRD REGION (3RN) has moved back to 3913 kHz at 1600L now that winter time propagation has returned. WA3SYE is back on the air; Al lost both legs (amputation) to diabetes but is once again checking into MEPN. Bill - KB3WL from Accident has been heard again. Page - WA3EOP thanks everyone for the participation in the MDD QSO party. Results are promised shortly!

Finally, for an information package about the MEPN, rip out this page (or send a suitable facsimile) with the form below filled out, and the net director HIMSELF will send you information about the net and how you can become a member.

Pud - W3DQI

---

George Korper - WD3W  
12806 Black Oak Drive  
Laurel, MD 20708

YES, I want to learn more about the Maryland Emergency Phone Net;  
Please send information to

Name \_\_\_\_\_ Call \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_



# Laurel Amateur Radio Club

## A Volunteer Examiner Coordinator

Meetings:	4th Wednesday of each month (except November & December) 8:00 p.m. at Harrison-Beard Building on corner of 9th and Montgomery, Laurel.
Social:	2nd Wednesday of each month except December. (Call for directions.)
Nets:	1st & 3rd & 5th Wednesday of each month, 8:30 p.m. on 147.54 simplex.
Mail:	P.O. Box 3039, Laurel, MD 20709-0039
Exams:	3rd Saturday of each month, 10:00 a.m. at Maryland Radio Center.
Information:	Bill - KD3EC (301) 776-4083 or Jim - WI3N (301) 725-6829

*The Laurel Amateur Radio Club is active in the Laurel area, which we think generally includes most of Northern PG County, and the surrounding area in Howard, Montgomery, and Anne Arundel Counties. All Amateurs in "our neighborhood" are welcome to participate in LARC activities.*

The club membership has been pretty busy over the last month. On the last Sunday in August, eleven members and spouses enjoyed a catered picnic sponsored by the Laurel Main Street Festival Committee as a thank you to those who helped with the days events. LARC provides communications for the parade and the day's festivities.

On September 1, LARC provided communications support to the D.C. Roadrunners annual fall 15km run through the Beltsville Agricultural Center. This involved a net control, the members stationing themselves around the course, and a roving pickup truck available to assist where needed. About a dozen members participated and four husbands and wives got to spend some time together on a beautiful day.

The LARC VE team was active at the Gaithersburg F.A.R. FEST, administering 124 elements to 73 people.

The Pallotti High School Invitational Cross-Country Track Meet on September 21 is probably the premier public service event in which the LARC participates. Beginning at 0900 and ending after 1700 made a long day for the 19 members who took part. Fortunately, the weather was beautiful and the emergencies were few in number. Coaches of the 900 plus runners repeatedly told us that if the LARC wasn't there they would not consider coming. It's always nice to feel needed.

September 16 saw the beginning of the Novice/Tech classes which will run until our VEs give exams on the Monday before Thanksgiving. So far, each session has maintained the original 30 member class. Thanks to John - W3GFS, Pud - W3DQI, and Bill - KD3EC for sharing the teaching duties. I suspect the consistent turnout has a lot to do with their enthusiasm and teaching ability.

Jim - WI3N

## Atlantic Division Elections

Ballots have been sent to all Full Members of ARRL who were in good standing as of September 10, 1991. If you have not yet received your ballot, contact ARRL Headquarters immediately to request a replacement. Your ballot must be received at headquarters no later than noon on November 20.

The election is for Director and Vice Director of the Atlantic Division for the next two-year term. It is important that all League members take the election seriously and VOTE. This is a contested election and you can't take it for granted that your favorite candidate is a "shoo in." Voting is not only a privilege of membership, it is a serious responsibility. Be sure to cast your vote for the candidates of your choice.



# Pentagon Amateur Radio Club

**Meetings** Monthly, on the second Wednesday of the month. Noon.  
 PARC clubroom (5B272), The Pentagon

**Repeater:** K4AF/R, 444.55 MHz. CTCSS 88.5 sometimes in effect.

**Packet:** 15.07 Digi - K4AF, Mailbox - PARC, Node - PNTAGN

**Mailing:** P.O. Box 47063, Washington, DC 20050

**Information:** David G. Boyd - K9MX (703) 659-6241 (H)  
 William Klein - N4VBW (703) 697-8157 (O) or (703) 590-2546 (H)

September's test session at the Pentagon resulted in two more upgrades. Bruce Braswell, KD4DGU went from Novice to Technician Plus. Christopher Bayer, KD4EDY, went from Novice (earned at our July session) to General, and with his usual precision aced both the code test and the written. We expect him back to go for his Extra in November.

Pentagon ARC attendance at the Virginia Beach Hamfest was a little thin this year, but a few did make it. Dick Lum, NH6E, and Spike, K9MX, both went down on Sunday, and - in usual Air Force fashion, was totally unprepared. He didn't have the route, the talk-in frequencies or the even the opening time, and he was even late picking up K9MX! His driving was up to par, though - he'd only had two or three hours of sleep, so he drove as erratically as usual. Now, the Army guy who writes this column wouldn't ordinarily condescend to give equal time to the Air Force, but Dick offered me a deal I couldn't refuse - either tell the story of the waitress or walk home. So here goes.

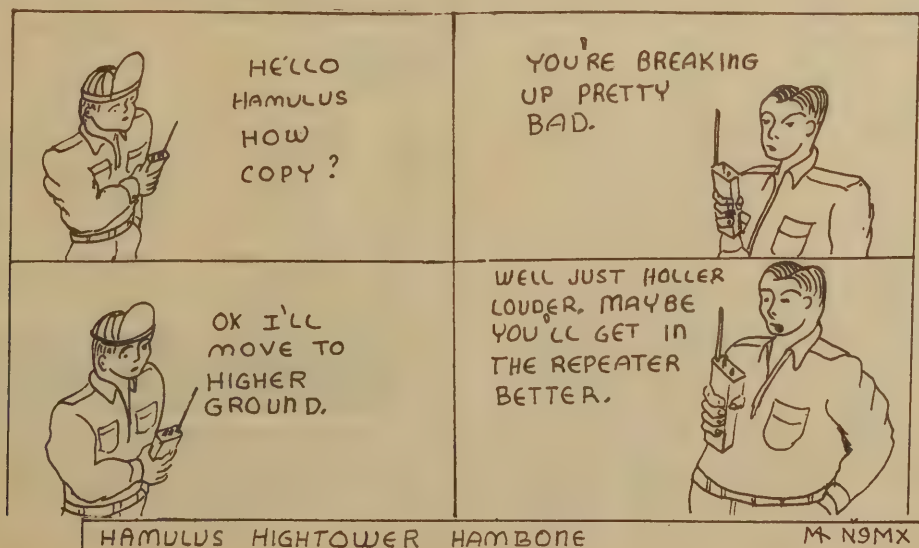
We stopped for breakfast at a little greasy spoon somewhere in Virginia Beach (we think, although it's hard to tell with Dick's navigation).

Anyway, the waitress came to our table and was intrigued by our radios. Looking at me - K9MX - she asked if we were there for a dog show. Puzzled, I asked why she thought we might be. She answered that she figured the "K9" on my jacket referred to canines! But I'm home now, so Dick should watch for next issue. Payback is . .

Of more general interest, the club has purchased a new R7 antenna and Kantronics DataEngine TNC, and is ordering new preamps for the satellite system and a D3W, WARC band rotatable dipole. Next year's budget has also been submitted and includes a new linear amplifier to replace our DESERT STORM casualty, a few pieces of new test equipment and tools, and repairs to several of our tired old Tailtwister rotors™. Once all this new stuff arrives, we're going to need members to pull out good jackets and join us on the roof of the Pentagon for an antenna party.

And, finally, don't forget the Marine Corps Marathon on the 3rd of November. We need all the members we can get to help us support this major event. Invite all your ham friends to come and help, too.

Spike, K9MX





# Mt. Vernon Amateur Radio Club

Meetings: Second Thursday of Each Month, 7:30 p.m. (except December)  
Mt. Vernon Governmental Center, 2511 Parkers Ln., Alexandria

Repeater: WD4PDP/R 146.055 input 146.655 output

Nets: Every Tuesday at 8:00 pm (0100 UTC Wednesday's)  
Starts on 2-meter then moves to 10-meter on 28.405

Information: Chris Morrow, W4WYL (703)765-5964

Training Classes: John Forrest, WZ4A (703) 971-3905

Mailing Address: c/o Frank Mackey, N4GUS, 8072 Athena St., Springfield, VA 22153

THANK YOU, Dr. Alan Robock for the September program about nuclear winter (causes and effects). I think we can best describe the talk as informative but rather frightening. THANKS also to Steve KB4WKK for bringing us another very interesting program.

Happily, September brought the following WELCOME VISITORS: Chris Worsley, Drew Daffron - KC4IUP and Mary Daffron (who is working on her license). Drew and Mary are repeat visitors and we are very glad to see them! We are delighted to WELCOME Bob Scott - KD4EBM as a NEW MEMBER.

MVARC's first Amateur Radio exams will have taken place by publication of this. For those interested, classes are held on the second Saturday of each month at Lee District Park in Fairfax County at no charge. Pre-registration is appreciated but walk-ins will be welcome. Call Frank Mackey - N4GUS (703) 455-1510 for pre-registration and information. Anyone interested in being a VE or helping at the exams (you don't have to be a VE to help out) should also get in touch with Frank.

In September, many members of the club helped at the Wolf Trap Children's Festival. THANK YOU FOR YOUR TIME: Steve - WB4EEA, Dave - N4YPR, Frank - KD4CCT, Sean - N1FFN, John - KI4HK, Frank - N4GUS, Bob - N4SCK, Fred - KN4JS and Luis - KC4NUE.

Next, on September 21, was the Waynewood Community Craft Fair. We set up a table with an HF rig and a 2-meter rig and answered lots of questions. THANK YOU FOR YOUR TIME: Steve - KB4WKK, Steve - WB4EEA, Dick - AB4JX, Marci - KM4VM, Kirk - KA4PXX, Doug - WA4WEP, Tom - N4BV, Keith - KO4IO, Luke - KO4IQ, Bill - KD4CNS and Will - KD4CNX. Please let me know if I left you out ... it's important to us to include your name in our thank you's.

There are plenty of events coming up at which hams are needed ... if you want to volunteer a little time, call Steve - WB4EEA (703) 780-7248.

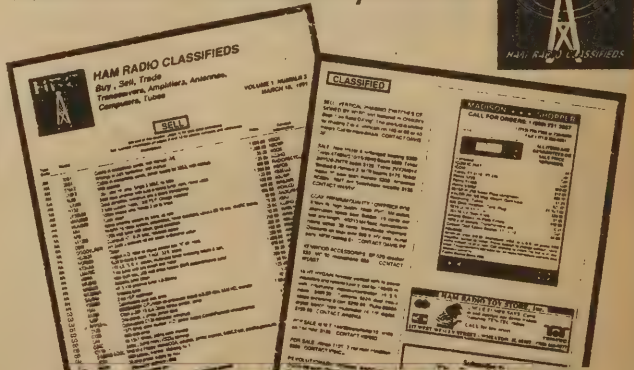
Everyone felt that we did real well on Field Day this year (at least we did better than last year) so we are anxiously awaiting the results in QST. Maybe in November's issue ... ?

November brings a discussion about WARC 92. On December 12, plan on joining the fun at the annual Christmas party (Wow, that means it's almost 1992!). Hope to see everyone on November 14!

Marci - KM4VM

## HAM RADIO CLASSIFIEDS

the bi-weekly classified  
newsletter for ham radio operators



**BUY — SELL — TRADE**  
Transceivers, Amplifiers, Antennas, Computers, Tubes

CALL OR WRITE FOR YOUR FREE COPY!

708/475-7802

739 Dobson St., Evanston, IL 60202

The best rates, with the best readership.



# Metrovision Amateur TV Club

**FAST SCAN - COLOR - ATV**

**Meetings:** Quarterly: Call for next meeting time and place.  
**Repeater:** WA9GVK/4 (Video and Audio) 425-431 MHz in; 438-444 MHz out  
Also accessible on 144.970, simplex, audio.  
**On-the-air:** Sundays at 8:00 p.m.  
**Mailing:** Metrovision, Inc., P.O. Box 8231, Falls Church, VA 22041  
**Information:** Dick - WB3EPX (301) 439-8135  
Gene - AD3F (301) 774-5307

---

We want to take the opportunity to thank Ruth - K3AGR and Dave - W3PJM for manning the tables at the 1991 Gaithersburg Hamfest. Ruth and Dave greeted our visitors, passed out literature on Metrovision and ATV, and renewed some memberships.

Metrovision has been asked to participate in the annual Marine Corps Marathon in early November, but we will not be able to do so this year. What we need in order to do this operation properly is a camera stabilizer mount for use in the truck which carries the ATV equipment. If anyone has such an item, please let us know so we can make plans for the next marathon.

My XYL, Jan, has finished her chemotherapy treatments and is now recovering very well. We thank all our members and friends who stood by us during this ordeal.

We compliment Lee - N4LXI on the quality of his IBM 386 computer generated graphics which he recently displayed on the Sunday night ATV net.

At the present time, Metrovision has thirty-nine members on its rolls. We hope to be sending out letters and renewal forms very soon to our membership, encouraging them to not only renew their memberships but, also, to become more active participant in our club.

As many of you are aware, since May, 1988 I have been writing the monthly article on Metrovision for Auto-Call. One way our members can become more active is to provide me with the information I can include in these articles. We cannot continue with a monthly article without your support. Some of you have been very generous in supplying material; others have not. Please, no matter how insignificant you may think your material is, submit it anyway. Let me decide on its significance. I need all of your support.

On behalf of Metrovision and myself,  
I want to wish you all a most happy Thanksgiving.

See You on ATV

Dick - WB3EPX

## Foundation Meetings

The Foundation for Amateur Radio meets at 8:00 p.m. on the second Wednesday of each month.

**Visitors are always welcome**

Phone (703) 536-8469 for information

The next meeting will be on November 13 in Takoma Park, Maryland  
Columbia Union College Science Building Auditorium, Flower Avenue  
Talk-in on 147.18



# Baltimore Amateur Radio Club

**Meetings:** First and third Wednesdays of the month, 7:30 p.m.  
At the Dulaney Valley High School, 255 Padonia Rd, Cockeysville, MD

**Repeaters:** W3FT/R pm 146.670/.070

**Information:** Contact BARC voice information line, HAM-FEST (426-3378)  
Out of the Baltimore area, call 1-800-HAM-FEST

**Mailing Address:** P.O. Box 120, Reisterstown, MD 21136

---

## Coordination of the W3FT Repeater Abandoned

The Executive Committee of the Baltimore Amateur Radio Club has made the the painful decision to abandon our coordination of the W3FT repeater on 146.940. This decision in no way affects our usage of the link frequencies authorized for that system as it is our intention to reuse them for expansion of our other repeaters currently in operation.

Phil Hebert - N3CDY, Chairman  
BARC Repeater Committee

---

## Antietam Radio Association W3CWC

**Meetings:** First and third Tuesdays of each month at 8:00 p.m. at the  
Civil Defense Center, Washington County Courthouse  
Hagerstown, Maryland

**Nets:** Tuesdays, 7:00 p.m. 146.940/340 MHz FM  
Wednesdays, 7:00 p.m. 447.975/442.975 MHz FM  
Thursdays, 7:00 p.m. 147.090/690 MHz FM

**Mailing:** Antietam Radio Association, P.O. Box 52, Hagerston, MD 21741

---

### HAWK TRIATHALON, HJC

On September 8th, the Hagerstown Junior College had its annual Triathlon with communications provided by the Antietam Radio Association. Net control was Bob - KC3DW. Participating members were N3EAV, W3HOF, W3FZT, WA3V DX, KD3JK, KA3YXN, KA3WVC, KD3TY, N3ECM, KA3BOT, N3GQD, N3GQS, KB6ZXL, KA3SDM, NF3X, N3ISU and WB3GEJ. A really great turn-out, Guys, and your help was most appreciated.

five others successfully completed the written element towards the No-Code Technician license. It's hoped these five successfully complete their 5 WPM requirement sometime in the near future.

Our congratulations to the new hams, and "A JOB WELL DONE" to Jerry Met - W3BRZ and to Page Pyne - WA3EOP for their great job in instructing the class. Thanks also to Jerry - W3BRZ and Bill Drager - W3UMV and KD3TY for conducting the exam.

### NOVICE CLASSES

On Monday, September 16th, the Novice license exam was given to the class. Of 10 applicants, three became Novice operators and

At the conclusion of the exam, Page immediately began instruction in Technician theory.

Don Marsden - KD3TY



# Prince George's Wireless Assn.

**Meetings:** First working Tuesday of each month, 7:30 p.m., American Red Cross Service Building, 6206 Belcrest Road, Hyattsville, MD 20782  
**Club Station:** K3CEZ  
**Mailing:** 4109 Kennedy Street, Hyattsville, MD 20781  
**Information:** Frank Holton, WA3ZMW (301) 927-1245

---

On October 1, the club held its monthly meeting. The attending members nominated and re-elected the following incumbent officers:

**President:** Frank Holton - WA3ZMW  
**Vice Pres:** Kenny Easton - N3HLY  
**Treasurer:** Louis Feher - W3IHL  
**Secretary:** Hersh Dan Miller - W3SWD

Don Bedell - KA3BKU, a former member, was a visitor from Texas. Don described his VHF/UHF activity with a group near Houston that utilizes weather balloons. The balloon is launched (on one occasion to 90,000 feet aloft) with equipment that operates in the Fast Scan

TV mode. Some very interesting experiments were conducted.

Another visitor was James Barker - KC4YSX who resides in Virginia. At this time he is not affiliated with a club. He gave a thumb-nail sketch of his Amateur interests.

A G5RV antenna was permanently installed. Primary use of this antenna will be to operate in the 75-meter band, thus enabling participation in the Maryland Emergency Phone Net. Operators will be available during the upcoming SET.

Hersh Dan Miller - W3SWD

## ARE YOU INTERESTED IN PUBLIC SERVICE?

### JOIN

#### PRINCE GEORGE'S WIRELESS ASSOCIATION Hyattsville, Maryland

Amateurs possessing any class of license can participate in Disaster Services operation of the American Red Cross, Prince George's County Chapter. We welcome your membership.

Guaranteed use of club station, K3CEZ

Assistance on a one-to-one basis  
will be provided for upgrading.

For more information, contact Frank Holton, WA3ZMW (301) 927-1245  
or

Hersh "Dan" Miller, W3SWD (301) 927-5837



# Southern Maryland Amateur Radio Club

Meetings:	2nd Friday of each month at 7:30 p.m. Church of the Nativity, 5203 Manchester Dr., Temple Hills, Maryland.
Nets:	Tuesdays at 8:00 p.m. on 147.75/15 Repeater Thursdays at 8:00 p.m. on 28.447 USB
Packet:	WA3TAI full service PBBS in Ackokeek, MD 145.03 & 446.075 SMD (WA3TAI-5) NET/ROM Node in Ackokeek, MD
Repeater:	W3PT/R 147.75/15, Cheltenham, MD. Autopatch to 911
Mailing:	P.O. Box 273, Cheltenham, MD 20623
Information:	Vic & Linda Curtis, WA3YUV & KA3VNI (301) 888-1388

---

SMARC is very pleased and proud to introduce our newest Amateur Extra class licensee. Thirteen year old Dana Eschelman - KA3VNM, passed her extra exams last month. Dana and her father Richard - WK3I, got their start in SMARC's Novice class last year. Congratulations also to Ray Covington - N3KIA, for upgrading to Advanced. Ray started in this Fall's Novice class and will soon be on the air with a new (to him) Kenwood 820 and a handful of dipoles.

Our current Novice class is doing well, with 18 prospective hams wondering why 'omes law has nothing to do with 'ouses and trying to remember if dididahdit is an F or an L. This edition of our Novice class is being brought to you by WA3YUV and WK3I. Look for yet another crop of new Novices to invade the bands from southern Maryland around the end of the year.

With all these new hams we're putting on the air, some SMARC members decided that it was too much trouble to have them drive all the way to College Park, or even Laurel, which is about half way to the North Pole if you're coming from southern Charles County, to upgrade their licenses. When you talk to W3ERU, a long time southern Maryland boy, about going north to the big city, he thinks you're talking about Waldorf. Anyway . . . to save all these new hams from having to get their passports stamped to journey up north for their license exams, SMARC decided to get into the VE game.

Several of us applied to Laurel ARC to be certified as examiners and we will start holding VE sessions at the church. Our first session is scheduled for 9 December at 7:00 p.m. See the exam section of Auto-Call for more information.

Autumn is a good time for public service events. Several of our members were active running a demonstration station set up at the Prince George's County Fair in September, and the beginning of October had us taking our portable gear down to St. Clement's Island, to set up a special event station for the annual Blessing of the Fleet. Mid October has us working with the Boy Scouts setting up for the JOTA, and November will bring the Marine Corps Marathon. Don Darby - KA3VNE, has been working hard coordinating volunteers and equipment for this major event.

If you read this before Veteran's Day weekend, and you'd like to help out, we can always use more people.

SMARC's annual Christmas Party is being upgraded this year. We got tired of the crowded back room at the restaurant and some people complained because there wasn't enough food. Of course, some people always think they need more food, or beer, or something, but we try to be accommodating. In order to accommodate a larger crowd, and give everyone enough room to stretch out and party, we're moving the party to the Camp Springs Elk's Lodge. Reliable sources tell us that the food is very good, and nobody walks away hungry. The hall is big enough that we can invite friends and neighbors, and even hams from other clubs who are looking for a good time.

The party is on December 13th, and starts around 7:00 p.m. Tickets are \$15 for adults, \$8 for children under 12, and are available from Kelly Curran - KA3MVU.

Mike - KO7Z



# Baltimore Radio Amateur TV Society

**Meetings:** Bi-monthly (even months), Irregular dates  
Baltimore County General Hospital on Old Court Road in Randallstown, MD  
**Address:** P.O. Box 5915, Baltimore, MD 21208

Any reprints from this column must be approved in advance

Preparations are under way for the next (14th) FAMOUS BRATS MARYLAND HAMFEST and COMPUTER FEST to be held on Sunday, July 26, 1992, at the Maryland State Fairgrounds at Timonium. This year's event was a huge success. We eagerly look forward to next year.

There was a big spread about BRATS ATV repeater and activities in the July 1991 issue of ATV Quarterly. Improvements continue to the ATV repeater, including color capability and upgrade of the 900 MHz output. As we always

say, "JOIN THE UGLY CONTEST, GET ON ATV." We presently have receivers on 426.25 and 1253.25 (your transmit frequencies) and we transmit (you receive) on 439.25 and 911.25. Also, the 439.25 output coincides with some cable channels. If you have cable, try Channel XX, Channel 60 or Channel 62.

Our ATV net takes place on the BRATs repeater (147.63/03) on Thursdays at 8:00 p.m. Check in with us and learn more about this exciting mode.

Mayer - W3GXX

## Help Wanted

### With Space Shuttle Interactive Space Physics Ionosphere Radio Experiment

A U.S. space shuttle launch is planned for March 1992 as the first mission in a series of 10 flight called ATmospheric Laboratory for Applications and Science (ATLAS-1). One of the payloads, Space Experiments with Particle ACcelerators (SEPAC), will investigate the ionosphere and magnetosphere, transmitting an 8-kW electron beam modulated as a VLF transmitter by audio tones between 50 Hz and 7 kHz. Scientists will attempt to record the signals at various locations on earth, and examine them via spectrum analysis and other means.

Because there are a limited number of ground stations, Amateur Radio operators and high schools are invited to participate in listening and recording activities. A low-cost (\$35-\$40) receiver kit has been designed and tested by hams, and will be made available this fall.

The project, dubbed INTERactive Space Physics Ionosphere Radio Experiments (INSPIRE), will be the first time in history that such an extensive data monitoring network has been set up to cover the U.S., as 10,000 high schools are being asked to participate.

Hams will also help with daily pre-mission communications regarding high school involvement, and Amateur Radio will play a vital role during the mission by relaying schedule changes for SEPAC transmissions. Radio clubs can help their members and local high schools with kit building and setting up listening stations.

For details about INSPIRE, Amateurs should send an SASE with two First-Class stamps to Jim Ericson, KG6EK, 226 Charles Street, Sunnyvale, CA 94086-6063. For information on school participation, send an SASE (two stamps) to Bill Pine, Science Department, Chaffey High School, 1245 N. Euclid Avenue, Ontario, CA 91762.

(QST 10/91)



## Hamfest Day

By Dave Mercier, N4YPR

On Hamfest day, at last you're here,  
For strolling and looking at all that gear.  
Radios, computers, and parts galore,  
Tailgaters, booths, and so much more,  
Eyeball QSOs, and meeting new hams,  
Renewing old friendships, upgrading exams.  
Hotdogs and hamburgers, great food to eat,  
Softdrinks and coffee, it just can't be beat.

On Hamfest day at last you're here,  
With company reps to ease your fear  
Of the newest technology there is to see,  
As well as the oldest, a sure source of glee.  
Hams and non-hams all running about  
Searching and finding, with a big happy shout,  
That special equipment they just had to buy  
And rush back home home to give it a try.

Of nametags and badges, with message for all,  
"Thank God it's a hamfest, Lets have a real ball."  
Let's thank those hams who sponsor the "Fest."  
It's very apparent that they did their best  
To leave us all happy and shouting with glee,  
"It's Hamfest day, and '73."

N4YPR

[Dave is official Poet Laureate of Mt. Vernon ARC]

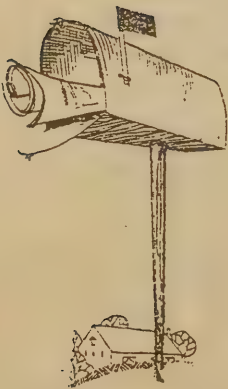
---

## Address Changes

Bad addresses continue to be a problem - and a considerable expense to Auto-Call. Third class mail will not be forwarded by the Post Office, so, if we don't have a good, up to date address for you on our mailing list; we have to pay the Post office a 35¢ handling fee to get a forwarding address -- if they have it. If they don't have a good address either, it still costs 35¢ to find that out!

If you are moving, or if your mailing address is being changed even for a brief vacation period, please let us know well in advance. If you are one of the Snow Birds who go south for the winter and north for the summer, be sure to keep us advised. We'll be glad to make the temporary change. We want you to get your Auto-Call but we can't afford first class postage to replace rejected mailings.

**Please keep Auto-Call advised of address changes.**





**G AND G ELECTRONICS**  
OF MARYLAND

8524 DAKOTA DRIVE, GAITHERSBURG, MD.  
Zio 20877

**WANTED  
FOR  
CASH!**

**USED Ham Gear, Test Equip.  
and Junque Boxes**

G&G ELECTRONICS OF MARYLAND  
JEFFREY GOLDMAN

8524 DAKOTA DRIVE (301) 258-7373  
GAITHERSBURG, MD 20877

548

March 1 19 87

65-7198/2550

PAY TO THE  
ORDER OF

John Q. Amateur, WA4XYZ

\$ 500.00

Five Hundred and 00/100 ----- DOLLARS



CHEVY CHASE SAVINGS  
AND LOAN, INC.  
CHEVY CHASE, MARYLAND 20815

FOR Used Equipment

==== SAMPLE =====

⑆255071981⑆

0548

**We've got one for you!**

**HOURS: MON & TUES 11AM TO 9PM  
WED 11 TO 5 & BY APPOINTMENT**

**258-7373**



## SHACK SALES

Noncommercial advertising of Amateur associated equipment is available to subscribers of **AUTO-CALL** at a rate of 3¢ per word -- with a \$1 minimum. Commercial vendors and non-subscriber rate is 17¢ per word - with a \$5.50 (1 inch) minimum. Special headings or special spacing (e.g. one item per line) may be used but such ads will be charged at the column inch rate.

Estate sales for Widows Assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 5th of the month preceding publication.

### WIDOW'S ASSISTANCE PROGRAM

#### Estate of Willis Crowder

- \* Hammarlund HQ-120 Receiver . . . . . \$150
- \* Hallicrafters S-27 . . . . . \$100
- \* Hallicrafters HT-37 . . . . . \$150
- \* ARRL Handbooks '71,'80,'85,'88 Best offer
- \* Miscellaneous tools, including  
1/4" drill press, etc.

Call Mrs. Crowder at (703) 250-9482,  
Fairfax, VA 22032 (FAR 11)

### ESTATE SALE

#### Estate of Rudy Williams, W3UBZ

- \* ICOM HF Transceiver IC751 . . . . . \$795
- \* ICOM IC2KL Solid State  
Linear Amplifier . . . . . \$1350
- \* ICOM AT 500 HF Fully auto-  
matic antenna tuner . . . . . \$350
- \* ASTRON RS7A Regulated PS . . . . . \$35
- \* KENWOOD AT 230 Antenna  
tuner . . . . . \$165

Call Bessie Williams (202) 882-7534,  
Washington, DC (FAR)

#### FOR SALE: KENWOOD TS-520SE

- with DG-5 . . . . . \$385
- RADIO SHACK HTX-100 10-mtr. Mobile \$160
- HEATHKIT HD1410 Electronic Keyer . . . \$35
- Call Frank - N3HIH, (301) 330-1655,  
Gaithersburg, MD (11)

**HOUSE FOR SALE:** QTH at Cannon Bluff in Woodbridge, VA. 1 acre spacious level lot with privacy and NO ANTENNA RESTRICTIONS. Spacious 4 bedroom, 2½ bath, center hall colonial with completely finished basement for ham shack. Listed at \$218,900. Price includes antenna tower and new triband beam. Paul Bauer - N3DAN, 11708 Bacon Race Rd., Woodbridge, VA 22192 (703) 590-0843 (11)

**FOR SALE:** Ham Paradise in Loudoun County, Virginia. . . . . \$229,900  
1¼ hours from D.C., 45 minutes from Dulles airport. On top of the Blue Ridge Mountains at 1800 feet. 10 acres, no restrictions, underground facilities - no noise. Ideal DX and repeater site. With free standing 70 foot fire tower. No more climbing. Walk up the stairway to the top, then work on the antennas in a 7 x 7 foot enclosed space! 3/4 Bedrooms, Living Room, Kitchen, Dining, 2nd Living Room on second floor. Full walk-out basement with finished radio room. 115/230 volts. Finished office or sewing room, storage room, shop and laundry areas. Screened porch, deck, and extra large two car detached garage with RC openers. For full details call K4RZ collect at (919) 637-7329, or contact local agent, Marge Burton at (703) 847-9111. (11)

### NORM'S ROTOR SERVICE

Rebuilt Rotors, Parts & Service  
Call Norm Jeweler - K3LYW  
5263 Agro Drive  
Frederick, MD 21701  
(301) 874-5885

Need antenna or tower work done?  
Call L. Chertok - W3GRF.  
(301) 297-4888



## SHACK SALES

**WORLD RADIO**, Amateur Radio's monthly newspaper can be delivered to your doorstep for only \$14 per year (\$15.09 in California, \$24 overseas). Get the latest on how your fellow amateurs use their hobby to help others. Regular features are Contest and Hamfest announcements, Aerials, Amateur Satellites, Continuous Wave, Digital Bus, DX World, Search & Rescue Communications, FCC Highlights, Mobile, New Products, Propagation, QCWA, QRP, Station Appearance, Traffic, VE Exams, 10-10 International News. Send your subscription to **WORLD RADIO**, 201 Lathrop Way, Ste. D, Sacramento, CA 95815. (Swp)

**FOR SALE:** DRAKE Xceiver TR7A with PS7; R7A Receiver; T-4XB with AC-4, R-4B; T-4XC with AC-4, two R-4Cs; HAMMARLUND HQ-180; Ameritron AL-1200 amplifier; CREI Electronics Engineering Technology Course; CEI Commercial Radio-telephone License Course. Call Jerry - K8OQL (703) 329-3358, Alexandria, Virginia 22303 (11)

**FOR SALE:** YAESU FT-102 Station: FT-102 HF Xcvr (200 watts, WARC bands), FV-102DM digital memory external VFO (12 memories, keyboard frequency entry), FC-102 antenna tuner (1.5 KW, wattmeters, coax, balanced or single wire feed), SP-102P speaker/phone-patch. All in excellent condition, now on the air ..... \$995 N4PDY, (703) 430-8402 Eve. Sterling, VA(11)

**FOR SALE:** KENWOOD TS-830S Transceiver, CW Filter, VFO-240, excellent mechanical and functional condition, non-smoker, original box and manuals ..... \$775 Also Realistic solid state DX-150 SWL Receiver, like new ..... \$60 Ed Berkowitz - N3US, (H) (301) 774-6506, or (W) (301) 427-2815, Montgomery County(11)

**FOR SALE:** ICOM 2AT ..... \$310.00  
CRI 2950 ..... \$280.00  
KENWOOD R5000 ..... \$830  
K40s ..... \$42  
WILSON 1000s ..... \$59  
BEARCAT 55XLT ..... \$130  
HUSTLER FX2B ..... \$33  
UNIDEN 810 ..... \$190  
UNIDEN 500D ..... \$45  
UNIDEN 520XL ..... \$60  
Ben - KD4DWP (703) 978-6268, Fairfax (11)

**WANTED: HAM EQUIPMENT AND OTHER PROPERTY.** The Radio Club of Junior High School 22 NYC, Inc. is a nonprofit organization, granted 501(C)(3) status by the IRS and incorporated with the goal of using the theme of ham radio to further and enhance the education of young people nationwide. Your property donation or financial support would be greatly appreciated and acknowledged with a receipt for your tax deductible contribution. Please look over whatever unwanted equipment you may have and call us. We will pick up or arrange shipping. You will receive the tax deduction, but most important, the privilege of knowing that your gift really made a difference in the education and upbringing of a child. You are invited to check into the WB2JKJ CLASSROOM NET on 7.238 MHz at 1200 UTC. Hope to meet fellow RCA members at the NY Athletic Club during the Club's annual banquet on Nov. 22. Write us at: THE RC OF JHS 22 NYC, INC, P.O. Box 1052, New York, NY 10002. 'Round the clock HOTLINES: Voice (516) 674-4072 (11)

**WANTED:** Donation of an old IBM compatible computer with at least 10 Meg harddrive to be the packet computer at the weather service. Contact SKYWARN Net Manager Dan Gropper - KC4OCG (703) 281-2358 or 281-7458 (11)

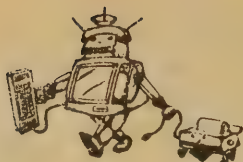
**FOR SALE:** MOSLEY PRO-67A Beam (40-10 Meter) with WARC Bands). Fully assembled but never used ..... \$350 Department of State ARC - W3DOS. Contact John Swafford, W4HU (703) 536-9537 (12)

**WANTED:** Yaesu Monitor Scope. Was originally (?) an option item for the FT-901/FT-980/FT102 series of radios. Prefer mint condition unit. Jim Bull - N3IDU (301) 843-1210, Waldorf, Maryland. Call anytime. (11)

**FOR SALE:** 800 TV tubes new in box, w/rack; B&K Model 1077b TV analyst; B&K Model 960 transistor radio analyst; B&K Model 1450 5" scope; Hickok Model 334 digital multi-meter; Eico Model 324 Signal Generator; Sams Photo-facts #310 to 1253; 152 Sams car radio manuals; and many parts. Purchaser must take everything. \$500 cash. K4LJH, (703) 338-4152 (09)



## SHACK SALES



### COMPUTER CORNER

**FOR SALE:** COMMODORE VIC-20 computer and accessories ..... \$50  
W4ZEI (703) 442-0740, McLean, VA (11)

**FOR SALE:** TOSHIBA T-1100+ Laptop Computer ..... \$400  
Call Frank - N3HIH (301) 330-1655, Gaithersburg, Maryland (11)

**FOR SALE:** ZENITH Z-100 "All in One" Model 2WG121-23 448K RAM; 10 Meg Hard Drive; One 5.25" Floppy ..... \$150  
Zenith Z-100 "Low Profile" Model 2W111-32 1 Meg RAM; RGB Color; UC1-IBM-PC Board; 10 Meg Hard Drive; One 5.25" Floppy ..... \$250  
Zenith Z-100 "Low Profile" Model 2F111-32 748K RAM; RGB Color; UC1-IBM-PC Board Two 5.25" Floppy's ..... \$200  
Tandy CM-5 RGB Color Monitor ..... \$100  
Zenith CD13HXR RGB Color Monitor .. \$125  
Magnavox CM1130 RGB Color Monitor 6 Months Old! ..... \$200  
You pay UPS or Pick up, 10 miles North of Hancock, MD, off Route 70. George J. Farndell - KD3QG, RD 2, Box 1520, Warfordsburg, PA 17267 (717) 294-3743 (12)

**WANTED:** In any condition:

- ❑ Collins KWS-1 Transmitters
- ❑ Collins KW1 Transmitter
- ❑ Collins 30K Transmitter
- ❑ Collins 51J/75A Series Receivers
- ❑ A cabinet for Collins 32V-2 Transmitter
- ❑ The desk part of the Johnson Desk kilowatt Amplifier.

Howard M. Mills - W3HM Rt #3, Box 712, Harpers Ferry, WV 25425. Call D.C. (202) 647-2428 (Work) or (304-876-6483 (Home after 7:00 p.m.) (052)

### THE QUANTUM HAM BATTERY

*All-Day Power for your HT!*

CALL 1-(703)-771-9284

N4PD, PAUL

LEESBURG, VA.

### Call JWO Services

Save on AMECO; ARRL; CALLBOOKS; RSGB; Oscillators, Code Keys, Etc.

#### 1992 CALLBOOK PRE-PUBLISHED SPECIAL

1992 NORTH AMERICAN CALLBOOK (\$30 List) Only \$23.95

1992 INTERNATIONAL CALLBOOK (\$30 List) Only \$23.95

Must place your order no later than 11/15/91

#### Novice/Tech and No-Code Study Guide Materials

ARRL "Now You're Talking" (List \$19) 1-9 \$17.30; 10-up \$16.15

AMECO "Complete Technician License Manual" (List \$9.95)

1-9 \$9.15 each 10-up \$8.55

#### NEW PUBLICATIONS

ARRL RADIO BUYER'S SOURCEBOOK (List \$15) \$13.70

1992 ARRL HANDBOOK (List \$25) \$22.50

ARRL OPERATING MANUAL (List \$18) \$17.25

ARRL ANTENNA BOOK (List \$20) \$18.25

1992 PASSPORT TO WORLDBAND RADIO (List \$17) \$15.60

Additional discounts on 10 or more

Call or write for an 8 page catalog of savings!

Ordering information: 30¢ handling charge per order and actual UPS charges (Over-payments on prepaid orders are refunded immediately with your shipment).

### JWO SERVICES

John W. Obradovich, W3IS

5th Year of Excellent Service

12 Hickory Place Camp Hill, PA 17011

New Phone (717) 731-4747 MasterCard/Visa

Daily to 10:00 p.m. and weekend afternoons

(11)

**FOR SALE:** Measurements Corp. Model 80, Signal Generator 10 to 470 MHz ..... \$125  
Hohner (Made in Germany) MELOCICA Piano 26. With mouthpiece & case ..... \$50  
Radio Shack Metal Detector, MicRonta 63-3001. Used once ..... \$30  
Electronic ORGAN, Hammond J100, with bench and lessons ..... \$600  
Rotor, CDR TR-44 ..... \$100  
Robot SSTV, Model 80 camera, 70 Monitor, Black and White.  
Tripod Macro Lense, Menu Boards and letters ..... \$250  
Other ham articles. Call Larry - W3MSN (301) 894-3977, Oxon Hill, MD (Nov)

**FOR SALE:** 4CX250B VHF/UHF Linear Amplifier, type FA-7840/1. Tunes 2-meters, 220, 432. Made for FAA by Collins. Includes hefty power supply, original manual, rack mount ..... \$150  
Joe - NA3T (301) 662-3486 (Eves), Frederick, Maryland (11)



## VINTAGE CORNER



## SHACK SALES

**WANTED:** Audio output transformer for RAK/RAL series receiver. Mike Feher, 9100 Traveller Street, Manassas, VA 22110 Phone (703) 361-8318. MAARC

**WANTED:** VHF-UHF xmitters and receivers for restoration. Tad Drogoski, 507 Coal Valley Road, Jefferson Boro, PA 15025 MAARC

### FOR SALE: DRAKE B Line

T4XB, R4B, AC4 MS4 ..... \$325  
Noise Blanker for TR4 Series ..... \$95  
40 foot Vertical Antenna ..... \$50  
PVC pipe ..... per 10 foot section \$3  
Joel - W3GOH (301) 670-9866, Darnestown, Maryland (11)

**FOR SALE:** JOHNSON Kilowatt MATCHBOX, mounted on standard 8 1/2 x 19" aluminum panel.

The following transmitting variable condensers:

- Johnson dual section, each 100mmf, 15-plates, .175" spacing, 7KV;
- Cardwell dual, each 50mmf, 11-plates .175" 6KV;
- Cardwell 190mmf, 21-plates, .084" 4250V;
- Cardwell-Midway dual, each 100 mmf, 21-plates, .070", 3KV;
- National neutralizing condenser 2.75" disc plates;

Lots of 2KV and 5KV molded mica capacitors;

Lots of computer grade caps -

225mf-300V & 2500mf-25V;

Lots of standoff and beehive insulators.

Make best offer for lot or by item(s).

W4AVU (804) 971-9686, Charlottesville, VA(1)

Become a part of one of the country's fastest growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For a sample newsletter, write to Joe Koester at 249 Spring Gap South, Laurel, MD 20707. Phone (301) 725-4229. (Swp)

Printing of the Auto-Call Magazine is handled by Dear Communications, Box 580, McLean, VA and ComPrint Printers of Gaithersburg, MD

**FOR SALE:** Precision Co. 954-G tube tester. Tests 800 types from '01A to most TV types. Tester incorporates 20,000 ohm-per-volt VOM, ranges up to 6000V DC/AC, 12A DC, 60 Megohms plus capacitor leakage & battery tester; G.E. Navy RAX-1 200-1500 kHz receiver with 120V AC power supply. Very good sensitivity & selectivity, 160 KHz IF. G.E. Navy RAX-1 7-27 MHz receiver with 120 V PW. Modified to feed into any BC set on 1400 KHz giving double conversion and thus better selectivity; Morrow 5BR-1 converter, 10-80 meter ham bands, works fine with RAX-1 200-1500 KHz set; Antique tubes '01As, '24A, '38, '71A, 199, '46, 210, 211, 866, many more. Also 956, 9003-9006s, & others. Make best offer per item. W4AVU, Charlottesville, VA (804) 971-9686 (11)

Attention Amateur Radio Newsletter Editor. AMATEUR RADIO NEWS SERVICE is an organization of publisher and editors of Amateur Radio newsletter and members engaged in public relations. Its purpose is to assist editors in any way possible. For information, write to Lee Knirko - W9MOL, 833 Park Plaine, Park Ridge, Illinois 60068

**FOR SALE:** TH6DXX with Stainless Steel hardware package from TELEX. Beam on ground and dis-assembled. This is a package deal ..... \$425  
Pud Reaver - W3DQI, (301) 498-6293, Laurel, Maryland (11)

**WANTED:** YAESU FT-33R 220 MHz FM Handheld Transceiver in excellent condition. Please contact Jay Madigan - KC4UBM in the evenings (703) 444-2633, Great Falls, VA (10)

## "RADIO INSTALLATIONS"

Clean - Neat - Professional  
If you want it done right  
Call us.

Herm - K2LEQ/3  
(301) 952-1414  
(072)



## SHACK SALES

### CLEANING HOUSE. Moving into Condo.

All steel rack, warehouse type, four shelves  
2' x 4', 4 perforated angle steel end supports  
7' high, assembled with 5/8-18 screws and  
nuts, shelves heights adjustable, 1/8" thick  
cross-bracing strips ..... \$30.  
Relay rack panels: 1/8" steel: 3-1/2" high,  
2-3/8" x 17" cutout, black ..... \$1  
1/8" aluminum, gray: 5-1/4" high, new \$2  
19" wide 8-3/4" high, new ..... \$4  
12-1/4 high, new ..... \$5  
7" high, used ..... \$2  
One shelf assembly 4' long, 1-1/2' wide,  
3' high, two 1/4" thick tempered presdwood  
shelves, aluminum angle corner posts, anti-  
sway struts ..... \$5  
One shelf assembly 3' long, 1 1/2' wide, 3' high  
3 metal shelves, anti-sway struts ..... \$5  
2' x 3', 1/2" thick plastic grille, 1/2" square  
openings, 1 sq. ft. cut out of one corner . \$2  
12" x 14" .03" aluminum grille, 1/8"  
close-spaced holes ..... Give away  
Chassis 1" 7075-T6 aluminum, edges and  
corners heliarced, 16-3/4" x 12" x 3" high  
14-3/4" x 2" removed from one edge;  
strong and light ..... \$10  
Large SPDT knife switch, for single-wire ant.\$2  
12-1/4" diameter aluminum rods, 16" long  
universal couplings on one end of each ... \$5  
Telephone, SC500 black, rotary dial,  
15' black cord, 4-prong plug ..... \$10  
Telephone, SC500 green, rotary dial,  
12' gray cord, modular plug ..... \$10  
Telephone ringer 601423 SC Co. G-41/PT  
hand cranked ..... \$1  
CB 8-1/2' whip, Radio Shack, mounted on  
solid insulating base, clamp to 2 1/2" maximum  
OD soil vent pipe, has brackets for four light  
radials. SO239 socket on base bottom \$10  
Reentrant horn loudspeaker 8 ohm impeded.  
should handle 50W; 12" diam horn rim,  
slightly bent, 7 1/2" deep, magnet 4" diam;  
2" thick. Was used with 30W burglar alarm  
amplifier ..... \$10  
Tape Recorder, Wollensak 3500, 5" reel  
Works, needs lubing. With manual ..... \$15  
CEI course "Electronics and Your Slide Rule"  
4 booklets, slide rule in sealed container;  
course unused, in original box ..... \$10

Three solar XYA cap cluster, 25pf 10KV each  
cap, from ARC-5 antenna tuning system . \$1  
Manuals: Navy tactical four-wire switchboard,  
1966; Spectrum Analyzer TS-1379A/U, 1966;  
Fundamentals of Diesel Engines, US Navy  
1951; Tech Manual for Multiplexer TD-  
908/UG, 1968; Instruction Manual for SSB  
Transceiver/RF-301; Installation Manual,  
Flexible RF Transmission Lines & Fittings,  
NavShips 900171. Tech Manual, Radio Set  
AN/URC-32, 1959. Tech Manual for Radio  
Rcvr R-105D/URR, 1969. .... Give Away  
W3HML, (703) 553-8075, Arlington, Virginia  
Evenings best ..... (11)

### FOR SALE: BIG SIGNAL ON 20:

3-Element mono band, 24' boom, H/D Aircraft  
aluminum, S/S hardware, has survived  
hurricanes undaunted. Dave - W3KDD. Call  
(301) 465-3884, Ellicott City, MD (Nov)

**FOR SALE:** HEATHKIT SB-101 SSB Trans-  
ceiver with AC power supply and manual.  
Needs minor repairs. As is ..... \$50  
John - W4ZEI (703) 442-0740, McLean,  
Virginia (11)

**WANTED:** Operator Manuals for CLEGG 22er  
and GLEGG 2er FM. KI4MB (703) 533-0650,  
6608 N. 18th St, Arlington, VA 22205  
Card/Price (11)

**TELL A FRIEND** about AUTO-CALL. Our Shack  
Sales and our Display Ads get good results.  
See page 62 for details on rates.

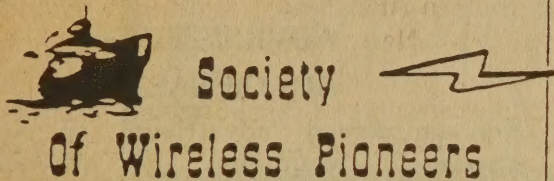
---

Are you interested in 6-meter (50-54 MHz)  
Activities? Join the Metropolitan  
Communications Network Radio Club, Nets:  
Saturday 8 p.m. (local time) on the club  
FM Repeater 53.250 out/52.250 in; Sunday  
9 a.m. on 50.400 and 8:00 p.m. on upper side  
band 50.125. If you would like more  
information call Bob Milligan - KI4MB at (703)  
533-0650 or see the Auto-Call Index for club  
news column.

---



## SHACK SALES



**Society  
of Wireless Pioneers**

THE INTERNATIONAL ORGANIZATION  
OF PROFESSIONAL RADIO TELEGRAPHERS

WM J BROWN, SEC 365-2049

**SR  
M**

Serio, Romano & Mitchell

CHARTERED  
CERTIFIED PUBLIC ACCOUNTANTS

JOHN T. NUTTMANN, CPA

7910 WOODMONT AVENUE  
SUITE 1110  
BETHESDA, MD 20814  
(301) 652-5040

## SKYPOINT HAM CENTER, LEESBURG, VA

### Skypoint Ham Center

15 C Catoctin Circle SE  
Leesburg, Va 22075  
1-703-777-9188

- \* Large inventory of used ham gear available..up to date & vintage!
- \* Professional service with modest rates and quick turnaround!
- \* Well stocked inventory of new rigs, station accessories and antenna needs!
- \* Collins equipment a specialty!
- \* Estate liquidations and sales welcomed!
- \* Customer satisfaction a priority!

### VINTAGE CORNER

Globe Sidebander  
Heath Apaches  
Heath Warrior  
National NC-303  
Heath Mohawk  
Hallicrafters SR-2K  
Collins KWM-2A's  
Gonset GSB-100's  
National NC 188  
Viking 1 & vfo  
National HRO-60  
Gonset 6 Mtr xcvr

Many more items to  
numerous to list!

If you're looking for  
a nice clean used rig  
come see us. We get  
new hams on the air  
at moderate prices!!

### MONTHLY FEATURE

PRICES REDUCED ON ALL  
VHF-UHF H/T & MOBILES

NOV  
91



ARE YOU HAVING PROBLEMS WITH YOUR  
RIG ? DO YOU HAVE VINTAGE GEAR THAT  
NEEDS RESTORATION AND CAN'T FIND  
ANYONE WILLING TO GET INVOLVED.  
WE DO IT ALL AT RATES ALOT LOWER  
THAN YOU THINK! CHECK US OUT!

Skypoint Ham Center is located at 15 C  
Catoctin Circle SE just off Rt 7 at traffic lite &  
Johnson's Charcoal Beef House. Take Catoctin  
Circle south west till you see a Honda sign just  
across from Virginia Village Shopping Center.  
Look for our sign and antennas on top of bldg.

STORE HOURS: Tue - Sat 10 - 6 Closed Mon.



# AUTO-CALL POLICY

## PRODUCTION POLICY

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is re-typed to preserve uniformity of style in the magazine. We use Word Perfect 5.1 word processing program, Hayes compatible modem (300 or 1200 baud) and can use either 3½" or 5¼" MS-DOS diskettes.

In determining space requirements, figure about 600 words per page (50 lines at 12 words per line), including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio. (Copy space is 7" wide by 9" high.) Copy can be reduced or enlarged as necessary.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portion of any copy submitted and to make minor changes to make copy fit available space.

## SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack Sales will **NOT** be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the call sign or the full name of the advertiser. If the full address is not included, we prefer to include the city along with a telephone number so that readers will know whether a long-distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, phone the Auto-Call editor at (703) 536-8469, McLean, VA.

## ADVERTISING

### SHACK SALES

Non-commercial advertising of Amateur associated equipment is available to subscribers of Auto-Call at 3¢ per word - with a \$1.00 minimum. Commercial vendors and non-subscriber rate is 17¢ per word - with a \$5.50 minimum.

Special headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - \$1.00 per column inch for non-commercial ads, \$5.50 per inch for commercial vendors and nonsubscribers.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

## DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be pre-paid for at least the current month.

Rates per Issue					
Page	Col.inch	1 Year	6 Times	3 Times	1 Time
Full	18	\$75.00	\$90.00	\$100.00	\$105.00
1/2	9	55.00	65.00	71.00	75.00
1/3	6	40.00	46.00	51.00	54.00
1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
1/8	2¼	17.00	20.00	22.00	23.00
1/9	2	16.00	19.00	21.00	22.00
1/18	1	8.50	10.00	11.00	11.50

Based on camera-ready copy.  
Extra charges for halftone photos  
and for in-house artwork or layout.

Copy must be received by the 5th  
of the month preceding publication date.  
(e.g., Copy for August issue must be received by 5 July)

**All Advertising Must be Pre-paid**





# JOIN ARRL

## BENEFITS FOR YOU

QST, QSL Bureau Awards, Low Cost Insurance Operating Aids,  
Government Liaison and More—Much More!

### MEMBERSHIP APPLICATION

Name \_\_\_\_\_ Call \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ Prov./State \_\_\_\_\_ PC/ZIP \_\_\_\_\_

\$30 in U.S. \$42 elsewhere (U.S. funds) Licensed amateurs or age 65 or over, upon submitting proof of age, may request special dues rate of \$24 in the U.S. \$36 elsewhere in U.S. funds. Persons age 17 and younger may qualify for special rates, write for application.

For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.

VISA, MC, AMEX, Discover # \_\_\_\_\_

Signature \_\_\_\_\_ Expires \_\_\_\_\_

The American Radio Relay League

225 Main St. Newington, CT. 06111 USA AUTOCALL

Atlantic Division Director  
Hugh Turnbull, W3ABC  
6903 Rhode Island Avenue  
College Park, MD 20740  
Phone: (301) 927-1797

Roanoke Division Director  
John Kanode, N4MM  
Rt 1, Box 73-A  
Boyce, VA 22620  
Phone: 703-837-1340

## AUTO-CALL Magazine

P.O. Box 7612

Falls Church, VA 22040-1452

Please enter my NEW \_\_\_\_\_ RENEWAL \_\_\_\_\_ GIFT \_\_\_\_\_ subscription to Auto-Call

For 1 Year \_\_\_\_\_ 2 Years \_\_\_\_\_

Subscription rate: \$8.00 per year.

(Sample copy of latest issue \$1.00)

will be applied to subscription

NAME \_\_\_\_\_ CALL \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

*Make check payable to the Foundation For Amateur Radio*



# NOVEMBER 1991

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 Mobileers Shenandoah	2 Stafford <u>EXAMS</u> College Park MD Middletown, VA Portsmouth, VA
3 MASON DIXON HAMFEST	4 Adams Dept of State	5 Antietam PG Wireless	6 BARC MARC	7 Anne Arundel	8 Alexandria SMARC Vienna	9 <u>EXAMS</u> Anne Arundel Mt.Vernon Manassas Woodbridge
10 <u>EXAMS</u> Bedford, VA	11 PVRC	12 Fauquier Frederick	13 Pentagon S. Patuxent --FAR--	14 Mt Vernon No.Virginia	15 RCARA Shenandoah	16 Capital City Stafford Ti County <u>EXAMS</u> Laurel
17	18 Ole VA Hams Sterling Park	19 Antietam Arlingto Woodbridge	20 BARC Goddard MARC	21 Anne Arundel QCWA #20 <u>EXAMS</u> Rockville	22 New Carrollton Vienna	23 Stafford
24 Adventists <u>EXAMS</u> Baltimore	25	26 Columbia	27 Laurel MADRAS QCWA #137	28 St. Mary's	29 <u>EXAMS</u> Stafford	30 Stafford

NCDXA Net every Sunday 147.420 at 8:30 p.m.

Nonprofit Organization  
U.S. Postage Paid  
Arlington, VA 22210  
Permit 757

## AUTO-CALL

P.O. Box 7612

Falls Church, VA 22040 - 1452

ADDRESS CORRECTION REQUESTED

92/09 02649  
ALFRED A LAUN III K3ZO  
PO BOX 31097  
TEMPLE HILLS MD 20757